Chemical Demilitarization Training Facility Course Catalog

Prepared For

PMCSD OPERATIONS DIVISION • PMCSD OPERATIONS DIVISION • PMCSD OPERATIONS DIVISION •

JACADS

ANCDF

PBCDF

TOCDF

UMATILLA
chemical agent disposal facility

Leading the World to Better Performance

SFAE-CD-CO-O (50q)

15 DEC 2001

MEMORANDUM FOR SEE DISTRIBUTION

SUBJECT: Release of the Chemical Distribution Demilitarization Training Facility (CDTF) Course Catalog, Revision C

1. Reference CDTF Course Catalog, Revision C, prepared by the Systems Contractor (SC), General Physics Corporation (GP) (encl.).

2. Please find the CDTF Course Catalog, Revision C, which supersedes the 2001 CDTF Course Catalog. Please note that the Catalog is also available in PDF or CD-ROM format upon request through the CDTF Training Coordinator, Ms. Christen Riley, at (410) 436-8936, or via e-mail at criley@genphysics.com.

3. Recommend you provide your training coordinator and SC Department Managers and/or Supervisors (Operations, Maintenance, Laboratory, Safety, Quality Assurance, where applicable) with a copy of the enclosure to assist in planning your training requirements.

4. For additional copies or comments on this training catalog, please contact Dale Druyor, (410) 436-1422, or myself, (410) 436-1417.

Encl
as

KENNETH W. FINDLEY
Contracting Officer's Representative

DISTRIBUTION:
JACADS Site Project Manager
TOCDF Site Project Manager
ANCDF Site Project Manager
UMCDF Site Project Manager
PBCDF Site Project Manager
CAMDS Director
Product Manager for Alternative Technologies and Approaches
Project Manager for Non-Stockpile Chemical Material

LIST OF EFFECTIVE PAGES

Page No.	Changes in effect
ALL	Rev. C

CHANGE RECORD

NUMBER AND DESCRIPTION OF CHANGE	ENTERED BY	DATE
Revision A, Change 0		
Revision B, Change 0		
Revision C, Change 0		

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General Information:

General Physics Corporation
Phone: 410-436-4945
FAX: 410-436-4946
P.O. Box 38
Second Street - Bldg. E-45M1
Aberdeen Proving Ground
Edgewood, Maryland 21010-0038

Registration:
Training Coordinator:.....410-436-8936
E-mail: .....criley@genphysics.com
Transcript Request:
E-mail last name, first name, E-mail address or FAX to Training Coordinator

Staff:
CDTF COR: 410-436-1439
CDTF ACOR: 410-436-1422
Training Operations Director: 410-436-4990
Instructional Systems Manager:.....410-436-4948
Engineering Manager: 410-436-2450
Operations Training Leader: 410-436-4994
Maintenance Training Leader: 410-436-4992
Laboratory Training Leader: 410-436-2716
Safety and Health Training Leader:.....410-436-4942

General CDTF Course Information:
Regular Class Hours: 7:30 a.m. - 4:00 p.m Lunch: 30 minutes
Second Shift Hours: 3:30 p.m. - 12:00 a.m.
Classes run five days a week unless specifically requested.
If you are scheduled to work on second shift, please check with the CDTF prior to arrival to obtain base access information.

CDTF Holiday Schedule:
These are the holidays currently observed by the CDTF. If these days conflict with course conduct, please contact the Training Operations Director.

New Year's Day .....January 1
Martin Luther King Day ....Third Monday in January
Presidents Day.....Third Monday in February
Memorial Day.....Last Monday in May
Independence Day .....July 4
Labor Day.....First Monday in September
Columbus Day .....Second Monday in October
Veterans Day.....November 11
Thanksgiving Day .....Fourth Thursday in November
Christmas Day .....December

Directions to CDTF from BWI Airport:

1. Follow signs to I-95 North (toward Baltimore and Philadelphia).
2. Continue through Baltimore and the Fort McHenry Tunnel (toll). Stay on I-95 for approximately 37 miles.
3. Take Exit 77a, Route 24 East toward Edgewood (bear to right). Follow Route 24 into the Edgewood Area of Aberdeen Proving Ground. Once inside the APG Gate Route 24 becomes Hoadley Road. Go straight through the traffic light and continue to a stop sign at Austin Road (Conference Center on your right). Go straight through the stop sign. Turn left onto Douglas Road. Turn right and park in the CDTF parking lot. Classes generally meet at the main lobby of the CDTF. Come to Building E45M1, GP Administration Building, for assistance if necessary.
4. In case of any problems, call the Administrative Staff at (410) 436-4945.

Safety Equipment:

Safety Shoes

Students will be exposed to falling object hazards while attending training at the CDTF. Therefore, students should bring steel-toed safety shoes.

Safety Glasses

Students attending Toxic Area Training (TAT, TAO, TAP) should bring prescription glass inserts to wear with various protective masks. All other safety glasses will be provided by the CDTF.

Chemical Demilitarization Training Facility Overview

The Chemical Demilitarization Training Facility (CDTF) was designed and constructed by the U.S. Army to support the Chemical Agent Disposal Facility (CDF) training programs. The CDTF is operated by the Systems Contractor for Training (SCT) which is General Physics Corporation of Columbia, Maryland.

The goal of the CDTF is to support the destruction of chemical weapons by providing effective training to the CDF workforce. The CDTF training courses are focused on providing demil-unique training for CDF Operations, Maintenance, Laboratory, and Safety and Health personnel. The following training areas are offered through the CDTF:

Operations Training

Training focuses on overview, fundamentals, and systems training and control room operator training. The overview, fundamentals, and systems training are knowledge-based and are taught at the CDTF or on-site. Control room hands-on training incorporates operation of demil process lines or process control system-simulators for furnaces, pollution abatement and some utility systems.

Maintenance Training

Training focuses on maintenance personnel who perform demil-machine changeovers, preventive and corrective maintenance and operational adjustments. Hands-on training incorporates fully operational demil-machines that can be set up to process all munitions types contained in the chemical stockpile.

Laboratory Training

Training focuses on laboratory analytical, monitoring, quality control, and instrument technician training. Hands-on training incorporates operational Depot Area Agent Monitoring Systems (DAAMS), Automatic Continuous Agent Monitoring Systems (ACAMS), Continuous Emissions Monitoring Systems (CEMS), and Gas Chromatographs (GCS) equipped with Flame Ionization Detector (FID), Flame Photometric Detector (FPD) and Mass Selective Detector/Flame Photometric Detector (MSD/FPD) as training aids.

Safety and Health Training:

CDTF Safety and Health training focuses on four primary areas:

- Emergency Response

  Training focuses on initial and annual refresher courses for first responders and members of the CDF's Emergency Response Organization (ERO). The curriculum is designed to meet applicable OSHA and Army regulatory requirements for emergency operations training (e.g., 29 CFR 1910.120 (p)(8), DA Pam 385-61, and DA Pam 50-6), as well as internal PMCD policies and guidance (e.g., Chemical Demilitarization Operations Manual and Guide to Emergency Response Planning). Hands-on training facilitates development of skills necessary to save lives, protect the environment, and protect property in the event of an emergency.

- HAZWOPER

  Training is designed to meet the regulatory and programmatic requirements, and will allow government and contractor personnel assigned to perform oversight tasks at CDFs to do so in a safe and healthful manner.

- Toxic Area Training

  A combination of three modular courses focused on providing CDF personnel with the necessary knowledge and skills to be able to work safely in a toxic environment. Toxic Area Protection (TAP), focuses on inspection, donning, and doffing of Toxicological Agent Protective gear; airlock procedures; and routine personnel decontamination procedures. Toxic Area Operations (TAO), is qualification training for personnel required to wear the Demilitarization Protective Ensemble (DPE) and emphasizes inspection, donning, and doffing of the DPE; airlock procedures; and routine personnel decontamination procedures. Hands-on training incorporates safety and health topics for personnel working with or around hazardous waste.

- DPE Support Area (DSA)

  Training focuses on providing operations training to CDF personnel assigned to the DPE Support Area and refresher training for DPE entry backup personnel on personnel rescue scenarios. These courses are listed with Toxic Area Training.

PMCD Field Office Training

Training focuses on recommended training tailored to meet the needs of PMCD Office Staff.

Refresher Training

Training focuses on exercises where certified operators identify, discuss and respond to various contingencies on the simulated Deactivation Furnace (DFS), Liquid Incinerator (LIC) and Metal Parts Furnace (MPF). It also includes refresher training in the areas of Communications, Emergency Response, HAZWOPER, and Toxic Area Training.

Instructional Design and Communication Training

Training focuses on Train-The-Trainer skills in the areas of Instructional Systems Development (ISD), Job/Task Analysis, On-The-Job Training, classroom presentation skills, as well as Communication and Management/Leadership skills.

Special Training Requests

To meet special customer needs, CDTF courses can be tailored upon request. Minimum and maximum student loads correlate to current course design. Course length, content and students can be adjusted to accommodate emergent customer requirements on a case-by-case basis. Please contact the Training Operations Manager or corresponding Training Leader ahead of time to request course customization.

College Credit for CDTF Courses

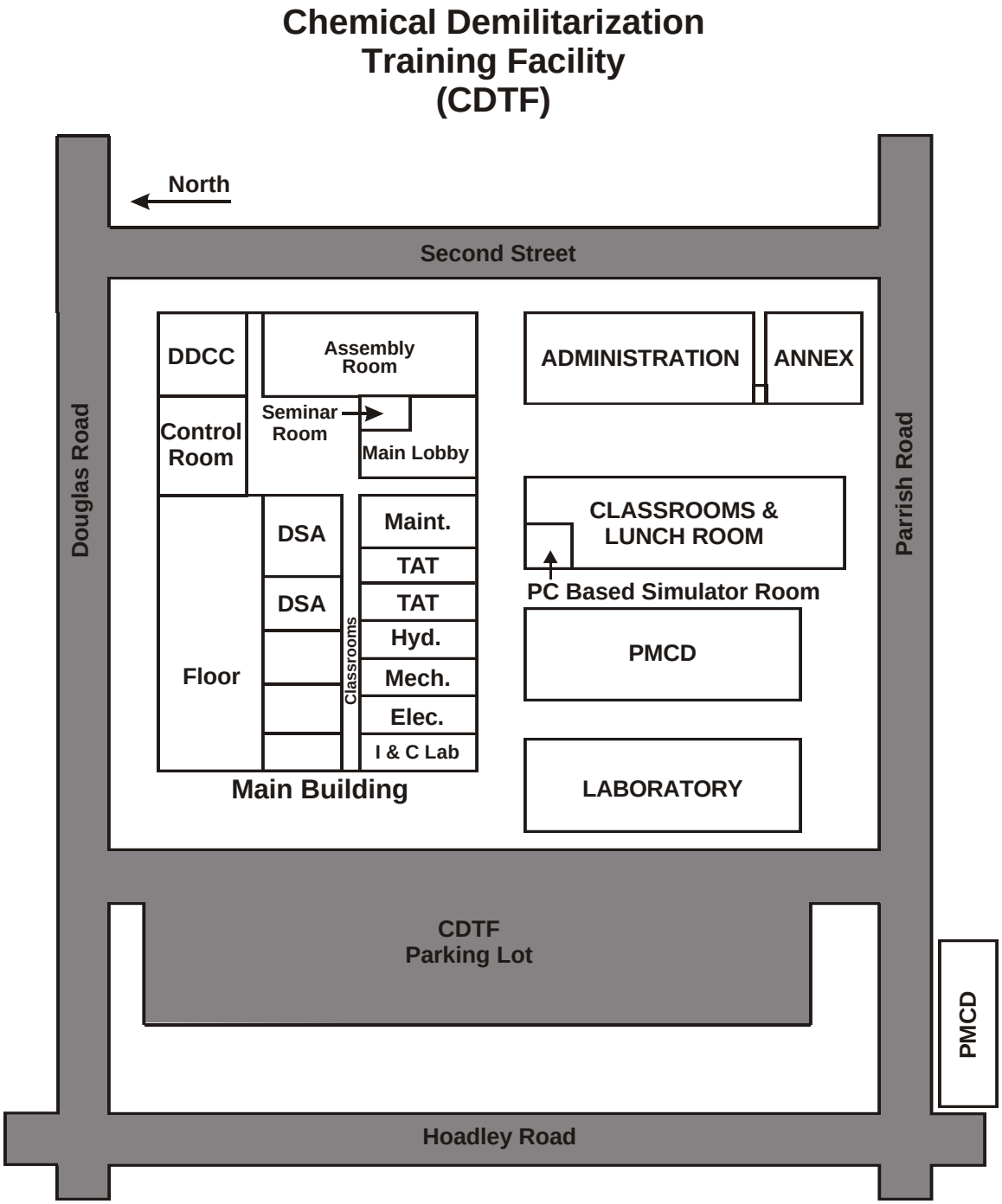
College credit may be obtained for CDTF course completion. The CDTF is proud to be a member of International Association for Continuing Education and Training (IACET) an internationally recognized organization for standards and certification for continuing education and training. IACET promotes and enhances quality in continuing education and training through research, education, standard setting, and certification.

The CDTF offers continuing education units (CEUs) for all CDTF courses. One CEU is equal to ten contact hours of participation in CDTF instruction. The CDTF maintains permanent records of all course attendance. In addition to CDTF certification, the CEUs can be added to a professional resume or portfolio and may be evaluated by some colleges and universities that have the ability to assess and give credit for prior learning activities.

Recommended CDTF Training Paths

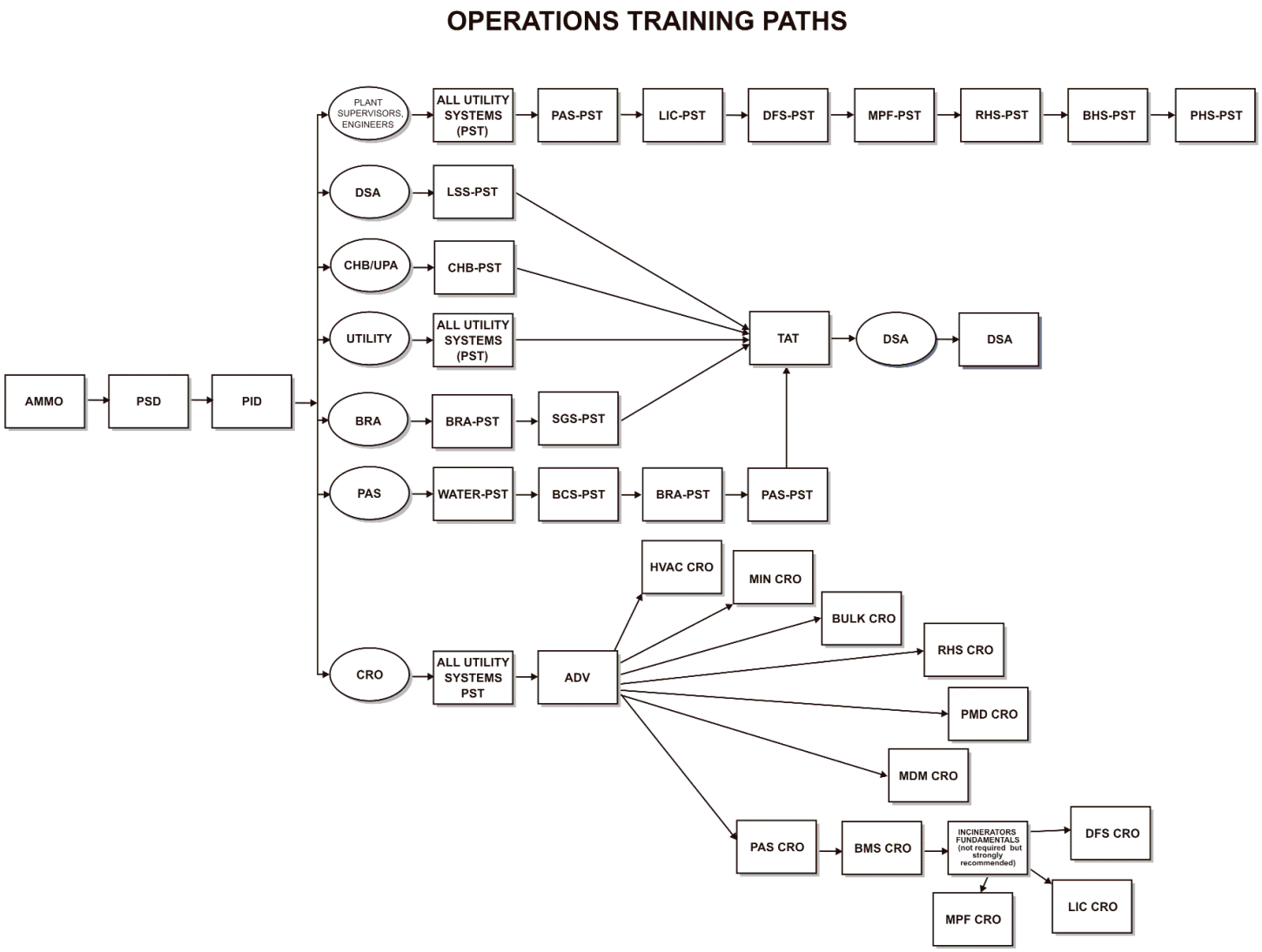
The CDTF recommends general training paths in support of the prerequisite training requirements for Operations, Maintenance and Laboratory personnel that comprise the baseline incineration sites. These are found at the beginning of each course description section. Please contact the appropriate Training Leaders with questions regarding course sequence and related information.

Map of Training Facility



OPERATIONS TRAINING COURSES

Operations Training Paths



OPERATIONS TRAINING

General Operations Training

CSDP Ammunition (AMMO)

5 Hours • 0.5 CEUs • 3/18 min/max

This is a lecture-based course where trainees learn the characteristics and hazards of explosives, and explosive safety training requirements of AMC-R 350-4. This course can be taught on-site.

Prerequisites: none

Hydraulic Fundamentals (HYD)

8 Hours • 0.8 CEUs • 3/12 min/max

This is a lecture-based course where trainees learn the theoretical aspects associated with the hydraulic systems. This course can be taught on-site.

Prerequisites: none

Incinerator Fundamentals (IF)

16 Hours • 1.6 CEUs • 3/12 min/max

This is a lecture-based course where trainees learn the theoretical aspects associated with the incinerator systems. Course objectives were developed to meet sections of Table 3 of the ASME QHO Standard. This course can be taught on-site. It is normally taught in conjunction with the CDF BMS Operations course to provide the control room operators with the theoretical understanding for the furnace control room courses.

Prerequisites: none

Incinerator Process And Equipment Training (IPET)

40 Hours • 4 CEUs • 3/12 min/max

This is a lecture course where trainees learn about topics associated with hazardous waste incinerators. Course objectives were developed to meet sections of Table 4 of the ASME QHO Standard. This course is designed to cover industry-wide applications of hazardous waste incinerators. It does not cover chemical demilitarization-specific information.

Prerequisites: none

Laboratory Plant Interface (LPI)

6 Hours • 0.6 CEUs • 3/12 min/max

This course will provide CDF Operations personnel with an overview of the duties and responsibilities of the CDF Laboratory and its personnel. The course will also provide an overview of the interactions between Laboratory and Operations personnel during various phases of plant operation.

Prerequisites: none

P&ID Reading (PID)

4 Hours • 0.4 CEUs • 3/18 min/max

This is a lecture-based course where trainees learn the basic skills and knowledge required to read and utilize Piping and Instrumentation Drawings (PID). This course provides a cursory introduction to reading P&IDs. Students will gain further proficiency via other systems training courses or OJT. This course can be taught on-site. It serves as a prerequisite to all systems training and control room operators courses.

Prerequisites: none

Plant Systems Description (PSD)

24 Hours • 2.4 CEUs • 3/18 min/max

This is a lecture course where trainees are provided with a general description of the major systems and processes found at a Chemical Demilitarization Facility. The course objectives cover the purpose of each of the systems and its major components. This course is a prerequisite to all systems training and control room training, and can be taught on-site.

Prerequisites: none

Toxic Area Training (TAT)

48 Hours • 4.8 CEUs • 4/6 min/max

This is a lecture/laboratory course which combines the Toxic Area Protection and Toxic Area Operations courses. Technicians learn chemical agent safety and the donning and doffing of Toxicological Agent Protective (TAP) clothing. Topics include agent symptoms, contamination categories, and practical exercises wearing protective clothing up to and including modified Level A. Technician then perform the donning and doffing of the Demilitarization Protective Ensemble (DPE) suit, learn DPE emergency procedures, and perform practical exercises while wearing the DPE suit.

Prerequisites: none

Plant Systems Training

ACAMS System Training (ACAMS-PST)

4 Hours • 0.4 CEUs • 3/12 min/max

This is a lecture/seminar course where trainees learn the functional operation of the Automatic Continuous Air Monitoring System (ACAMS) and the Depot Area Air Monitoring System (DAAMS). This course builds on knowledge obtained in PSD. It provides a cursory discussion on ACAMS and focuses on the ACAMS interface with the plant's Operation Department. This course is included in the Utilities Systems PST and can be taught on-site.

Prerequisites: P&ID Reading, PSD

Brine Reduction Area System Training (BRA-PST)

4 Hours • 0.4 CEUs • 3/12 min/max

This is a lecture/seminar course where trainees learn the functional operation of the Brine Reduction Area System (BRA). This course builds on the skills obtained in the P&ID Reading course and PSD course, is included in the Utilities Systems PST, and can be taught on-site.

Prerequisites: P&ID Reading, PSD

OPERATIONS TRAINING

Bulk Chemical System Training (BCS-PST)

4 Hours • 0.4 CEUs • 3/12 min/max

This is a lecture/seminar course where trainees learn the functional operation of the Bulk Chemical System (BCS). This course builds on the skills obtained in the P&ID Reading course and PSD course, is included in the Utilities Systems PST, and can be taught on-site.

Prerequisites: P&ID Reading, PSD

Bulk Container Handling System Training (BHS-PST)

8 Hours • 0.8 CEUs • 3/12 min/max

This is a lecture/seminar course where trainees learn the functional operation of the Bulk Container Handling System (BHS). This course builds on the skills obtained in the P&ID Reading course and PSD course. This course can be taught on-site, however, it is normally taught at the CDTF in order for trainees to perform a walk-down of the actual bulk container handling system.

Prerequisites: P&ID Reading, PSD

Central Decon System Training (CDS-PST)

4 Hours • 0.4 CEUs • 3/12 min/max

This is a lecture/seminar course where trainees learn the functional operation of the Central Decontamination System (CDS). This course builds on the skills obtained in the P&ID Reading course and PSD course, is included in the Utilities Systems PST, and can be taught on-site.

Prerequisites: P&ID Reading, PSD

Compressed Air System Training (CAS-PST)

8 Hours • 0.8 CEUs • 3/12 min/max

This is a lecture/seminar course where trainees learn the functional operation of the Compressed Air Systems (CAS). This course builds on the skills obtained in the P&ID Reading course and PSD course, is included in the Utilities Systems PST, and can be taught on-site.

Prerequisites: P&ID Reading, PSD

Container Handling Building System Training (CHB-PST)

4 Hours • 0.4 CEUs • 3/12 min/max

This is a lecture/seminar course where trainees learn the functional operation of the Container Handling Building Systems (CHB). This course builds on the skills obtained in the P&ID Reading course and PSD course, and can be taught on-site.

Prerequisites: P&ID Reading, PSD

Deactivation Furnace System Training (DFS-PST)

8 Hours • 0.8 CEUs • 3/12 min/max

This is a lecture/seminar course where trainees learn the functional operation of the Deactivation Furnace System (DFS). This course builds on the skills obtained in the P&ID Reading course and PSD course, and can be taught on-site.

Prerequisites: P&ID Reading, PSD

Electrical Distribution System Training (ELEC-PST)

8 Hours • 0.8 CEUs • 3/12 min/max

This is a lecture/seminar course where trainees learn the functional operation of the Electrical Distribution System (ELEC). This course does not focus on electrical safety or electrical fundamentals. This course builds on the skills obtained in the P&ID Reading course, is included in the Utilities Systems PST, and can be taught on-site.

Prerequisites: P&ID Reading, PSD

Fire Detection And Protection System Training (FDS-PST)

4 Hours • 0.4 CEUs • 3/12 min/max

This is a lecture/seminar course where trainees learn the functional operation of the Fire Detection and Protection System (FDS). This course builds on the skills obtained in the P&ID Reading course and PSD course, is included in the Utilities Systems PST, and can be taught on-site.

Prerequisites: P&ID Reading, PSD

Fuel Gas System Training (FGS-PST)

4 Hours • 0.4 CEUs • 3/12 min/max

This is a lecture/seminar course where trainees learn the functional operation of the Fuel Gas System (FGS). This course builds on the skills obtained in the P&ID Reading course and PSD course, is included in the Utilities Systems PST, and can be taught on-site

Prerequisites: P&ID Reading, PSD

HVAC System Training (HVAC-PST)

9 Hours • 0.9 CEUs • 3/12 min/max

This is a lecture/seminar course where trainees learn the functional operation of the Heating, Ventilation, and Air Conditioning System(HVAC), the Chilled Water System (CHW), and Hot Water System (HEAT). This course builds on the skills obtained in the P&ID Reading course and PSD course, is included in the Utilities Systems PST, and can be taught on-site.

Prerequisites: P&ID Reading, PSD

Hydraulic System Training (HYD-PST)

6 Hours • 0.6 CEUs • 3/12 min/max

This is a lecture/seminar course where trainees learn the functional operation of the MDB hydraulic system. This course builds on theskills obtained in the P&ID Reading course and PSD course, is included in the Utilities Systems PST, and can be taught on-site.

Prerequisites: P&ID Reading, PSD

Liquid Incinerator System Training (LIC-PST)

8 Hours • 0.8 CEUs • 3/12 min/max

This is a lecture/seminar course where trainees learn the functional operation of the Liquid Incinerator System (LIC). This course builds on the skills obtained in the P&ID Reading course and PSD course, and can be taught on-site.

Prerequisites: P&ID Reading, PSD

OPERATIONS TRAINING

MDB Door System Training (DOOR-PST)

2 Hours • 0.2 CEUs • 3/12 min/max

This is a lecture/seminar course where operators learn the functional operation of the Munitions Demilitarization Building (MDB) door monitoring system. This course is included in the Utilities Systems PST and can be taught on-site.

Prerequisites: none

Metal Parts Furnace System Training (MPF-PST)

8 Hours • 0.8 CEUs • 3/12 min/max

This is a lecture/seminar course where trainees learn the functional operation of the Metal Parts Furnace System (MPF). This course builds on the skills obtained in the P&ID Reading course and PSD course, and can be taught on-site.

Prerequisites: P&ID Reading, PSD

Mine Handling System Training (MIN-PST)

8 Hours • 0.8 CEUs • 3/12 min/max

This is a lecture/seminar course where the trainees learn the functional operation of the Mine Handling System (MHS). This course builds on the skills obtained in the P&ID reading course and PSD course. This course can be taught on-site, however, it is normally taught at the CDTF in order for trainees to walk-down the MHS.

Prerequisites: none

Pollution Abatement System Training (PAS-PST)

8 Hours • 0.8 CEUs • 3/12 min/max

This is a lecture/seminar course where trainees learn the functional operation of the MPF, LIC, and DFS Pollution Abatement Systems (PAS). This course covers the PAS associated with TOCDF. This course builds on the skills obtained in the P&ID Reading course and PSD course, and can be taught on-site.

Prerequisites: P&ID Reading, PSD

Pollution Abatement System Training/PFS Training (PAS/PFS)

8 Hours • 0.8 CEUs • 3/12 min/max

This is a lecture/seminar course where trainees learn the functional operation of the MPF, LIC, and DFS Pollution Abatement Systems (PAS).This course discusses the ANCDF, PBCDF and UMCDF PAS.

Prerequisites: P&ID Reading, PSD

Process Cooling System Training (COOL-PST)

4 Hours • 0.4 CEUs • 3/12 min/max

This is a lecture/seminar course where trainees use the associated functional analysis workbook to learn the functional operation of the primary cooling system. This course builds on the skills obtained in the P&ID Reading course and PSD course, is included in the Utilities Systems PST, and can be taught on-site.

Prerequisites: P&ID Reading, PSD

Projectile Handling System Training (PHS-PST)

16 Hours • 1.6 CEUs • 3/12 min/max

This is a lecture/seminar course where the trainees learn the functional operation of the Projectile Handling System (PHS). This course builds on the skills obtained in the P&ID Reading course and PSD course. This course can be taught on-site, however it is normally taught at the CDTF in order for trainees to walk-down the PMD and MDM.

Prerequisites: P&ID Reading, PSD

Rocket Handling System Training (RHS-PST)

8 Hours • 0.8 CEUs • 3/12 min/max

This is a lecture/seminar course where trainees learn the functional operation of the Rocket Handling System (RHS). This course builds on the skills obtained in the P&ID Reading course and PSD course. This course can be taught on-site, however it is normally taught at the CDTF in order for trainees to walk-down the rocket line.

Prerequisites: P&ID Reading, PSD

Steam Generation System Training (SGS-PST)

4 Hours • 0.4 CEUs • 3/12 min/max

This is a lecture/seminar course where the trainees learn the functional operation of the Steam Generation System (SGS). This course builds on skills obtained in P&ID Reading and PSD course, is included in the Utilities Systems PST, and can be taught on-site.

Prerequisites: P&ID Reading, PSD

Toxic Area Training (TAT)

48 Hours • 4.8 CEUs • 4/6 min/max

This is a lecture/laboratory course which combines the Toxic Area Protection and Toxic Area Operations courses. Technicians learn chemical agent safety and the donning and doffing of Toxicological Agent Protective (TAP) clothing. Topics include agent symptoms, contamination categories, and practical exercises wearing protective clothing up to and including modified Level A. Technician then perform the donning and doffing of the Demilitarization Protective Ensemble (DPE) suit, learn DPE emergency procedures, and perform practical exercises while wearing the DPE suit.

Prerequisites: none

Toxic Storage And Handling System Training (TOX-PST)

7 Hours • 0.7 CEUs • 3/12 min/max

This is a lecture/seminar course where trainees learn the functional operation of the toxic storage and handling system. Topics include the Spent Decon Collection (SDC), Spent Decon Storage and Feed (SDSF), and Agent Storage and Feed (ASF) systems. This course builds on the skills obtained in the P&ID Reading course and PSD course, is included in the Utilities Systems PST, and can be taught on-site.

Prerequisites: P&ID Reading, PSD

OPERATIONS TRAINING

Water System Training (WATER-PST)

5 Hours • 0.5 CEUs • 3/12 min/max

This is a lecture/seminar course where trainees learn the functional operation of the water systems. This course builds on the skills obtained in the P&ID Reading course and PSD course, is included in the Utilities Systems PST, and can be taught on-site.

Prerequisites: P&ID Reading, PSD

Control Room Operator Training

Advisor PC Operations (ADV)

24 Hours • 2.4 CEUs • 2/6 min/max

This is a lecture/laboratory course where control room operators operate the Advisor PC System. Topics include accessing control screens, operating remote equipment, interpreting control screen indications, operating demil machine sequencers, and troubleshooting equipment from the control room. This course is a prerequisite for all control room operator courses.

Prerequisites: PSD, P&ID Reading

Bulk Container Handling For Control Room Operators (BULK CRO)

32 Hours • 3.2 CEUs • 2/6 min/max

This is a lecture/laboratory course where trainees learn to operate a Bulk Container Handling System (BHS). Topics include screen introduction, component walk-down, functional operation of major components, start-up, automatic and manual processing, and shutdown of BHS. Skills training is based on ton containers, however, this can be changed to another munitions type upon request from the Systems Contractor.

Prerequisites: Advisor PC Operations, P&ID Reading, PSD

CDF Burner Management System Operation (BMS CRO)

8 Hours • 0.8 CEUs • 2/6 min/max

This is a lecture/laboratory course where trainees learn about the hardware and control circuits of the Burner Management System (BMS). Topics include the control screen indicators from the burner management system and the basic control circuits used in BMS operation. This course is a prerequisite for all Furnace for Control Room Operators courses. All trainees should have the ability to read electrical schematics.

Prerequisites: Advisor PC Operations, PSD

Deactivation Furnace Training For Control Room Operators (DFS CRO)

48 Hours • 4.8 CEUs • 2/6 min/max

This is a lecture/laboratory course where trainees learn to operate a simulated Deactivation Furnace System (DFS). Topics include screen introductions, startup, processing, shutdown, and functional operation of the major components of the DFS.

Prerequisites: Advisor PC Operations, P&ID Reading, CDF BMS Operations,PSD, PAS CRO

Electrical Distribution System Training For Control Room Operators (TOCDF) (Elec-Cro TOCDF)

24 Hours • 2.4 CEUs • 2/6 min/max

This is a lecture/seminar course where trainees learn to operate a simulated Electrical Distribution System at TOCDF. Topics include screen introduction, normal operating conditions, control system response to abnormal conditions and various system lineups. This course is specifically designed for TOCDF Control Room Operators and does not focus on electrical safety or electrical fundamentals.

Prerequisites: Advisor PC Operations, P&ID Reading PSD

HVAC Training For Control Room Operators (HVAC CRO)

24 Hours • 2.4 CEUs • 2/6 min/max

This is a lecture/laboratory course where trainees learn to operate a simulated MDB Heating, Ventilation, and Air Conditioning System (HVAC). Topics include start-up, operation, shut down of the ventilation system, screen introductions, and functional operation of major components of the HVAC system.

Prerequisites: Advisor PC Operations, P&ID Reading, PSD, HVAC-PST

Liquid Incinerator Training For Control Room Operators (LIC CRO)

48 Hours • 4.8 CEUs • 2/6 min/max

This is a lecture/laboratory course where trainees learn to operate a simulated Liquid Incinerator System (LIC). Topics include startup, processing, shutdown, screen introductions, and functional operations of major components of the LIC.

Prerequisites: Advisor PC Operations, P&ID Reading, CDF BMS Operations, PSD, PAS CRO

Mine Handling System Training For Control Room Operators (MPF CRO)

48 Hours • 4.8 CEUs • 2/6 min/max

This is a lecture/laboratory course where trainees learn to operate a simulated Metal Parts Furnace (MPF). Topics include the startup, processing, shutdown, screen introductions, and functional operation of major components of the MPF.

Prerequisites: Advisor PC Operations, P&ID Reading, CDF BMS Operations, PSD, PAS CRO

OPERATIONS TRAINING

Mine Handling System Training For Control Room Operators (MIN CRO)

32 Hours • 3.2 CEUs • 2/6 min/max

This is a lecture/laboratory course where trainees learn to operate the Mine Handling System. Topics include start-up, manual and automatic processing, shut-down, screen introductions, line walk-downs, and functional operation of the Mine Handling equipment.

Prerequisites: none

Multipurpose Demilitarization Machine Training For Control Room Operators (MDM CRO)

40 Hours • 4 CEUs • 2/6 min/max

This is a lecture/laboratory course where trainees learn to operate a Multipurpose Demil Machine (MDM), MDM indexing hydraulic conveyor, and Pick and Place Machine (PKPL). Topics include start-up, manual and automatic processing, shut down of the MDM and PKPL, screen introductions, line walk-downs, and functional operation of the MDM and PKPL components. Skills training is based on M360 projectiles, however, this can be changed to another munitions type upon request from the Systems Contractor.

Prerequisites: Advisor PC Operations, P&ID Reading, PSD

Pollution Abatement System Training For Control Room Operators (PAS CRO)

24 Hours • 2.4 CEUs • 2/6 min/max

This is a lecture/laboratory course where trainees learn to operate a simulated Pollution Abatement System (PAS) associated with the LIC, MPF, and DFS. Topics include startup, operation, shutdown, screen introduction, and functional operation of major PAS components. PFS information will be included and discussed if applicable.

Prerequisites: Advisor PC Operations, P&ID Reading, PSD

Projectile/Mortar Disassembly For Control Room Operators (PMD CRO)

40 Hours • 4 CEUs • 2/6 min/max

This is a lecture/laboratory course where trainees learn to operate a Projectile/Mortar Disassembly Machine (PMD) and a Multiposition Loader (MPL). Topics include the startup, manual and automatic processing, shutdown, screen introductions, line walk-downs, and functional operation of the PMD and MPL components . Skills training is based on M360 projectiles, however, this can be changed to another munitions type upon request from the Systems Contractor.

Prerequisites: Advisor PC Operations, P&ID Reading, PSD

Rocket Handling Training For Control Room Operators (RHS CRO)

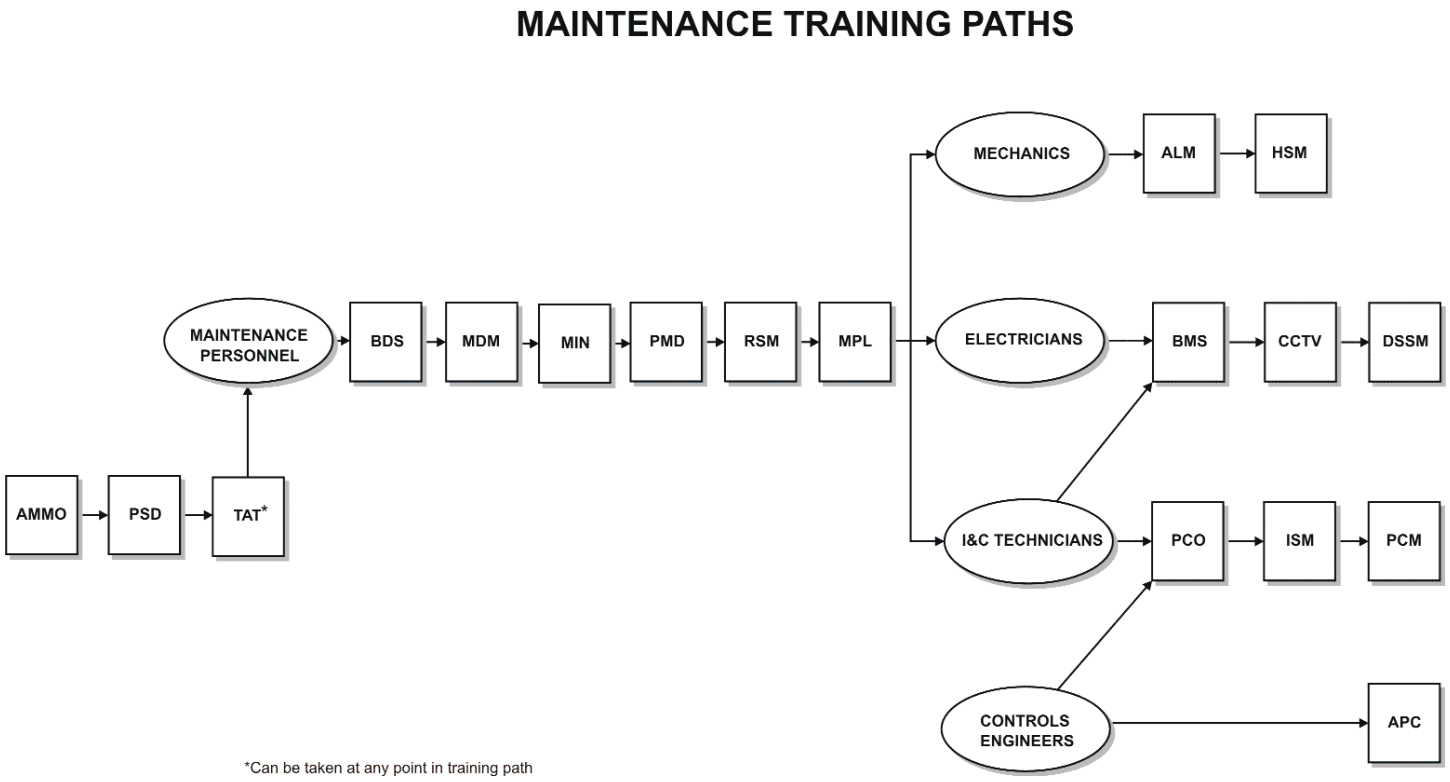
32 Hours • 3.2 CEUs • 2/6 min/max

This is a lecture/laboratory course trainees learn to operate a Rocket Handling System (RHS). Topics include the startup, manual and automatic processing, shutdown, screen introductions, line walk-down, and functional operation of the major components.

Prerequisites: P&ID Reading, PSD, Advisor PC Operations

MAINTENANCE TRAINING COURSES

Maintenance Training Paths



MAINTENANCE TRAINING

Maintenance Courses

Advanced Process Control (APC)
80 Hours • 8 CEUs • 2/6 min/max
This is a lecture/laboratory course where software engineers perform software maintenance on the Advisor PC, Alarm Concentrator, and PLC 3/5 in accordance with the CSDP Software Design Guidelines.
Prerequisites: none

Agent Line Maintenance (ALM)
16 Hours • 1.6 CEUs • 2/6 min/max
This is a lecture/laboratory course where maintenance technicians replace and rebuild components found in typical agent lines in a non-toxic environment.
Prerequisites: none

Bulk Drain Station Maintenance (BDS)
32 Hours • 3.2 CEUs • 2/6 min/max
This is a lecture/laboratory course where maintenance technicians perform machinery configuration changes, and preventive and corrective maintenance, on a non-contaminated Bulk Drain Station (BDS).
Prerequisites: none

Burner Management System Maintenance (BMS)
16 Hours • 1.6 CEUs • 2/6 min/max
This is a lecture/laboratory course where maintenance technicians perform maintenance and troubleshooting on the various electronic circuits installed for burner control. Topics include the temperature switches and timers used in the burner control circuits.
Prerequisites: none

Closed Circuit Television Maintenance (CCTV)
16 Hours • 1.6 CEUs • 2/6 min/max
This is a lecture/laboratory course where maintenance technicians perform maintenance and troubleshooting on the Closed-Circuit Television System (CCTV). Topics include change out and set up of cameras in a non-contaminated environment.
Prerequisites: none

Demilitarization Protective Ensemble Suit Sealer Maintenance (DSSM)
16 Hours • 1.6 CEUs • 2/6 min/max
This is a lecture/laboratory course where maintenance technicians perform maintenance and troubleshooting on the Demilitarization Protective Ensemble (DPE) suit sealer. Topics include the setup for 20 and 30 mil suits, seal bar change outs, and venting and filling the suit sealer hydraulic systems.
Prerequisites: none

Hydraulic System Maintenance (HSM)
24 Hours • 2.4 CEUs • 2/6 min/max
This is a lecture/laboratory course where maintenance technicians perform preventive and corrective maintenance on a non-contaminated Hydraulic Power Unit and associated hydraulic valve manifold equipment.
Prerequisites: none

I/O Subsystem Maintenance (ISM)
16 Hours • 1.6 CEUs • 2/6 min/max
This is a lecture/laboratory course where maintenance technicians calibrate and perform corrective maintenance on Allen Bradley PLC 3 input/output devices. Topics include module replacement, fault diagnosis, and analog card calibration.
Prerequisites: none

Mine Machine Maintenance (MIN)
16 Hours • 1.6 CEUs • 2/6 min/max
This is a lecture/laboratory course where maintenance technicians perform preventive and corrective maintenance on a non-contaminated Mine Machine.
Prerequisites: none

Mine Machine Phase 1 Systemization (MIN-PH1)
16 Hours • 1.6 CEUs • 2/6 min/max
This is a lecture/laboratory course where Systemization Teams perform electrical equipment, instrumentation, and PLC wiring operational verification for the Mine Machine.
Prerequisites: none

Multi-Position Loader Maintenance (MPL)
32 Hours • 3.2 CEUs • 2/6 min/max
This is a lecture/laboratory course where maintenance technicians perform maintenance and troubleshooting on the Multi-Positional Loader (MPL). Topics include configuration of the MPL to accommodate various munitions types.
Prerequisites: none

Multipurpose Demilitarization Machine Maintenance (MDM)
32 Hours • 3.2 CEUs • 2/6 min/max
This is a lecture/laboratory course where maintenance technicians perform machinery configuration changes, and preventive and corrective maintenance, on a non-contaminated Multi-Purpose Demil Machine (MDM).
Prerequisites: none

PHASE 1 Systemization (PH1)
16 Hours • 1.6 CEUs • 2/6 min/max
This is a lecture/laboratory course where Systemization Teams perform electrical equipment, instrumentation, and PLC wiring operational verification for demil-related systems.
Prerequisites: none

MAINTENANCE TRAINING

Process Control Maintenance (PCM)

24 Hours • 2.4 CEUs • 2/6 min/max

This is a lecture/laboratory course where maintenance technicians perform maintenance and troubleshooting on Allen Bradley PLC -3 processor subsystems. Topics include the configuration and replacement of the processor modules.

Prerequisites: none

Process Control System Overview (PCO)

16 Hours • 1.6 CEUs • 2/6 min/max

This is a lecture/laboratory course where non-control room operators perform the fundamentals of the CSDP Control Systems and Advisor PC system operations. Topics include accessing control screens and interpreting control screen indications.

Prerequisites: none

Projectile/Mortar Disassembly Machine Maintenance (PMD)

40 Hours • 4 CEUs • 2/6 min/max

This is a lecture/laboratory course where maintenance technicians perform machinery configuration changes, and preventive and corrective maintenance, on a non-contaminated Projectile/Mortar Disassembly Machine (PMD).

Prerequisites: none

Rocket Shear Machine Maintenance (RSM)

32 Hours • 3.2 CEUs • 2/6 min/max

This is a lecture/laboratory course where maintenance technicians perform machinery configuration changes, and preventive and corrective maintenance, on a non-contaminated Rocket Shear Machine (RSM).

Prerequisites: none

Toxic Area Training (TAT)

48 Hours • 4.8 CEUs • 4/6 min/max

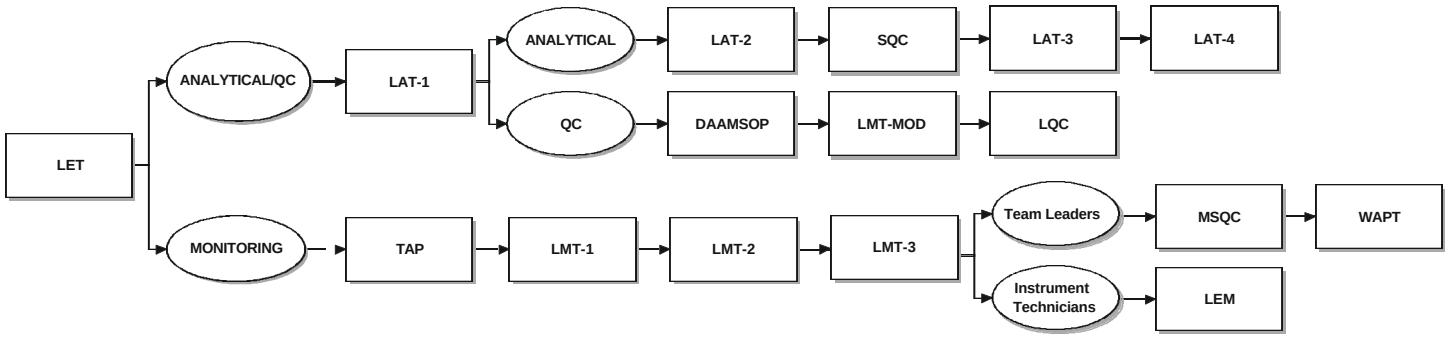
This is a lecture/laboratory course which combines the Toxic Area Protection and Toxic Area Operations courses. Technicians learn chemical agent safety and the donning and doffing of Toxicological Agent Protective (TAP) clothing. Topics include agent symptoms, contamination categories, and practical exercises wearing protective clothing up to and including modified Level A. Technician then perform the donning and doffing of the Demilitarization Protective Ensemble (DPE) suit, learn DPE emergency procedures, and perform practical exercises while wearing the DPE suit.

Prerequisites: none

LABORATORY TRAINING COURSES

Laboratory Training Paths

LABORATORY ANALYTICAL, MONITORING AND QUALITY CONTROL TRAINING PATHS



LABORATORY TRAINING

Laboratory General Training

Plant Systems Description - Laboratory (PSD LAB)

8 Hours • 0.8 CEUs • 1/24 min/max

This is a lecture course where laboratory personnel are provided a general description of the plant systems and processes on which they interface**.** These systems include the life support air, ventilation, all furnaces, pollution abatement, residue handling, and brine reduction.

Prerequisites: none

MOD Laboratory Essentials Training (LET)

40 Hours • 4 CEUs • 1/24 min/max

This is a lecture/laboratory course covering an overview of laboratory operations and laboratory fundamentals including: basic laboratory practices, laboratory safety, basic laboratory equipment, and chemical agent essentials**.** Exercises include: identification of laboratory hazards, compressed gas cylinder handling, analytical balance, syringe, and linear mass flow meter usage.

Prerequisites: none

Toxic Area Protection (TAP)

16 Hours • 1.6 CEUs • 4/6 min/max

This is a lecture/laboratory course where demil personnel learn chemical agent safety and the donning and doffing of Toxicological Agent Protective (TAP) clothing. Topics include agent symptoms, contamination categories, and practical exercises wearing protective clothing up to and including modified Level A.

Prerequisites: none

Laboratory Analytical Training

Agent Chemist Training (LAT3)

40 Hours • 4 CEUs • 1/4 min/max

This is a lecture/laboratory course where chemists perform operator level activities, and preventive/corrective maintenance activities on the HP 5890/6890 GC equipped with an auto-sampler and Flame Ionization Detector (FID). Topics include GC-FID components and support equipment, HP ChemStation, agent operations including: accessing agent, agent transfers, preparation of agent standards, and agent accountability. Exercises include instrument set-up, quality control activities, internal standard purity analysis, gravimetric preparation of agent standards, systematic error analysis, agent access, transfers and accountability. Maintenance activities include injection port and FID cleaning.

Prerequisites: LAT2 or LAT2 MOD

Analytical Branch Statistical Quality Control Training (ASQC)

24 Hours • 2.4 CEUs • 1/12 min/max

This is a lecture course which outlines the analytical statistical quality control requirements set forth in the Laboratory Quality Assurance Plan (LQAP) for the Chemical Stockpile Disposal Program. Topics include laboratory control status, statistical analysis of calibration data, precession and accuracy study statistical calculations, initial and continual baseline study calculations, and out of control criteria for the Class 1 and 2 methods. Exercises include basic statistics, calibration curve calculations, precession and accuracy study, and baseline study calculations.

Prerequisites: LAT2 or LAT2 MOD

DAAMS GC Operation (DAAMS GC)

48 Hours • 4.8 CEUs • 1/6 min/max

This is a lecture/laboratory course where technicians perform operator level activities on the Hewlett Packard 5890/6890 Gas Chromatograph with Backflush system. Topics include sample preparation, the 5890/6890 GC, backflush modification and technique, HP ChemStation, components and support equipment. Exercises include instrument set-up, backflush timing, midpoint optimization, calibration, and quality control activities.

Prerequisites: LAT1

DAAMS GC Operator Training (LAT2)

80 Hours • 8 CEUs • 1/6 min/max

This is a lecture/laboratory course where technicians perform operator level activities and preventive/corrective maintenance on the Hewlett Packard 5890/6890 Gas Chromatograph with Backflush system. Topics include sample preparation, the 5890/6890 GC, backflush modification and technique, HP ChemStation, components and support equipment. Exercises include instrument set-up, flow measurements, backflush timing, midpoint optimization, calibration, multi-agent calibration, and quality control activities. Maintenance activities include injection port cleaning, guard column, pre-column and analytical column replacement, post-column split installation and flame photometric detector (FPD) cleaning.

Prerequisites: LAT1

Dynatherm DAAMS GC Operator Training (LAT2 MOD)

80 Hours • 8 CEUs • 1/12 min/max

This is a lecture/laboratory course where technicians perform operator level activities and preventive/corrective maintenance on the Hewlett Packard 5890/6890 Gas Chromatograph with Dynatherm Automated Thermal Desorption (ATD) system. Topics include the 5890/6890 GC, HP ChemStation, Automated Continuous Environmental Monitor (ACEM), and Multiple Tube Desorption Unit (MTDU) components and support equipment. Exercises include instrument set-up, calibration, and quality control activities. Maintenance activities include ferrule replacement, transfer lines and column replacement, and flame photometric detector (FPD) cleaning.

Prerequisites: LAT1

LABORATORY TRAINING

GC-MSD/FPD Operator Training (LAT4)

80 Hours • 8 CEUs • 1/4 min/max

This is a lecture/laboratory course where chemists perform operator level activities, and preventive/corrective maintenance activities on the HP 6890 GC equipped with a Dynatherm Automated Thermal Desorption (ATD) system and a HP 5973 Mass Selective Detector/Flame Photometric Detector (GC-MSD/FPD). Topics include GC-MSD/FPD components and support equipment, basic mass spectral interpretation, target tuning, mass axis calibration, BFB verification, and spectral library searching. Exercises include instrument set-up, method input, target tuning, mass calibration, BFB verification, calibration, interferent identification and quality control activities. Maintenance activities include foreline and diffusion pump fluid replacement, PFTBA tuning compound replacement, electron multiplier horn replacement, and source cleaning.

Prerequisites: LAT2 or LAT2

Process Residue Analysis Training (LAT1)

40 Hours • 4 CEUs • 1/12 min/max

This is a lecture/laboratory course providing an overview of the personnel, equipment, and responsibilities of the Analytical Branch. Additional topics include: general laboratory skills and procedures, reagent quality, significant figures, notebooks and documentation, non-agent analytical methods, off-site analyses and solid waste (SW)-846. Exercises include: pH determination, decontamination solution strength, specific gravity, free liquids, total suspended and dissolved solids, and extractions.

Prerequisites: LET

Laboratory Monitoring Training

ACAMS Operator Training (LMT2)

80 Hours • 8 CEUs • 1/12 min/max

This is a lecture/laboratory course where technicians perform operator level activities and preventive/corrective maintenance on the Automatic Continuous Air Monitoring System (ACAMS).Topics include ACAMS components and support equipment, HD and GB/VX configurations, calibration and quality control activities, flow normalization, low-volume sampler (LVS) operation, and ACAMS Air Dilution Flow Controller (AADFC) operation. Activities include ACAMS set-up, calibration, quality control activities, pre-concentrator tube replacement, conversion pad replacement, agent change-over, ACAMS-LVS set-up and calibration, ACAMS-AADFC set-up and calibration.

Prerequisites: LMT1

Air Monitoring Equipment Maintenance Training (LEM)

120 Hours • 12 CEUs • 1/3 min/max

This is a lecture/laboratory course where instrument technicians perform corrective and preventive maintenance procedures on laboratory monitoring equipment. Topics include electrical safety, proper selection of test equipment, basic troubleshooting techniques, and ACAMS, DAAMS and CEMS maintenance activities. ACAMS maintenance activities include six-port valve and FPD cleaning, microprocessor board programming, press-to-fit construction, flow meter and controller calibrations, and ADFC leak and flow verifications. DAAMS maintenance activities include vacuum verification, carbon vein replacement, and solenoid valve cleaning. CEMS maintenance activities include probe cleaning, sample pump diaphragm replacement, chart recorder calibration, O2 cell replacement, NOX reaction chamber cleaning and amplifier board adjustments, CO/CO2 cell cleaning, oscillator tuning, digital and pre-amp gain adjustments, and microprocessor board programming.

Prerequisites: LMT3

CEMS Operator Training (LMT3)

56 Hours • 5.6 CEUs • 1/12 min/max

This is a lecture/laboratory course where technicians perform operator level activities on the extractive Continuous Emission Monitoring System (CEMS). Topics include CEMS overview, CEMS rack components and support equipment, sample conditioning, stack sampling characteristics, CEMS probes, CEMS certification and quality control requirements, and the following CEMS analyzers: carbon monoxide, carbon dioxide, nitrogen oxides, oxygen and moisture. Activities include CEMS rack start-up, and CEMS analyzer calibrations.

Prerequisites: LMT2

MINICAMS Operator Training (LMT4)

80 Hours • 8 CEUs • 1/6 min/max

This is a lecture/laboratory course where technicians perform operator level activities and preventive/corrective maintenance on the Miniature Automatic Continuous Air Monitoring System (MINICAMS). Topics include MINICAMS components and support equipment, HD/Lewisite and GB/VX configurations, Halogen-Specific Detector (XSD), Flame Photometric Detector (FPD), MINICAMS calibration and quality control activities, and MINILINK operations. Activities include MINCAMS set-up, calibration, quality control activities, pre-concentrator tube replacement, conversion pad replacement, agent change-over, MINILINK operation, flow rate measurements, GC module, detector module, and selected component replacements.

Prerequisites: LMT1

Monitoring Branch Statistical Quality Control Training (MSQC)

24 Hours • 2.4 CEUs • 1/12 min/max

This is a lecture course which outlines the monitoring statistical quality control requirements set forth in the Laboratory Quality Assurance Plan (LQAP) for the

LABORATORY TRAINING

Chemical Stockpile Disposal Program. Topics include laboratory control status, precession and accuracy study statistical calculations, initial and continual baseline study calculations, and out of control criteria for the Class 1 methods. Exercises include basic statistics, precession and accuracy study, and baseline study calculations.
Prerequisites: LMT3

Sample Collection Training (LMT1)

40 Hours • 4 CEUs • 1/12 min/max
This is a lecture/laboratory course providing an overview of the personnel, equipment, and responsibilities of the Monitoring Branch as well as sample collection from a variety of media including air, liquids and solids. Additional topics include: routine solid, liquid and air sampling, sampling equipment, sampling containers, preservation, chain-of-custody, custody seals, solid waste (SW)-846 quality control measures, Depot Area Air Monitoring System (DAAMS) sampling and the DAAMS Air Dilution Flow Controller (DADFC). Activities include collection of solid, liquid and air samples and quality control samples, completion of required sampling documentation, DAAMS sequencer programming, DAAMS sample station inspections, and ADFC integrity verification.
Prerequisites: LET

Waste Analysis Program Training (WAPT)

16 Hours • 1.6 CEUs • 1/12 min/max
This is a lecture course recommended for supervisors covering the identification and coding of hazardous wastes, sampling strategies, reference documentation and test methods (Solid Waste SW-846) for solid waste evaluations, and the element of the Waste Analysis Plan (WAP). Activities include identification and coding of hazardous wastes and the evaluation of analytical data for hazardous waste characterization.
Prerequisites: LMT1

Laboratory Quality Control Training

DAAMS GC Operation (DAAMS GC)

48 Hours • 4.8 CEUs • 1/6 min/max
This is a lecture/laboratory course where technicians perform operator level activities on the Hewlett Packard 5890/6890 Gas Chromatograph with Backflush system. Topics include sample preparation, the 5890/6890 GC, backflush modification and technique, HP ChemStation, components and support equipment. Exercises include instrument set-up, backflush timing, midpoint optimization, calibration, and quality control activities.
Prerequisites: LAT1

Laboratory Quality Control Training (LQC)

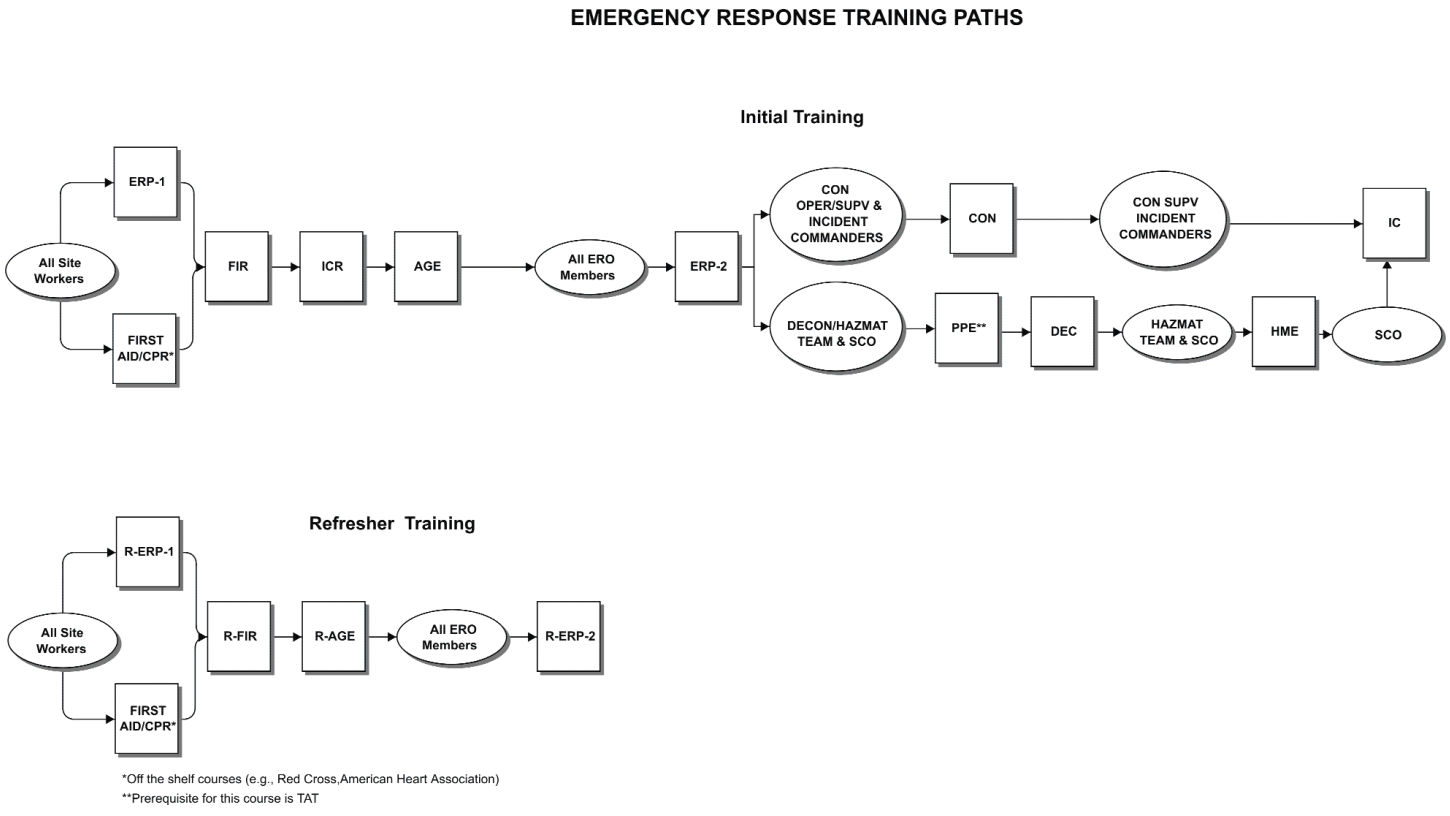
112 Hours • 11.2 CEUs • 1/6 min/max
This is a lecture/laboratory course which outlines the quality control requirements set forth in the Laboratory Quality Assurance Plan (LQAP) for the Chemical Stockpile Disposal Program. Topics include quality assurance (QA)/quality control (QC) overview, QA/QC regulatory requirements, LQAP overview, statistical quality control activities for monitoring and analytical data, quality control agent activities, laboratory audits and reports, and data management activities. Exercises include quality control plant (QP)/ quality control laboratory (QL) samples preparation, precision and accuracy (P&A) study evaluation via CERTIFY, standards verification, and agent accountability QC procedures.
Prerequisites: LMT-MOD

Monitoring For QC Personnel (LMT MOD)

112 Hours • 11.2 CEUs • 1/6 min/max
This is a lecture/laboratory course where laboratory managers and quality control personnel perform laboratory monitoring operations. Topics include the responsibilities of the Monitoring Branch as well as sample collection from a variety of media including air, liquids and solids; DAAMS sample station operation, sequencer programming, DAAMS sample collection, and chain of custody procedures; proper ACAMS operation, components of the ACAMS, and the support equipment necessary for operation, instrument set-up, calibration, and quality control; proper CEMS operations, components of the CEMS, CEMS analyzers, and support equipment necessary for the operations, instrument set-up and calibration and quality control. Activities include liquid and solid sample collection, DAAMS sample collection, ACAMS operation and calibration, and CEMS operation and calibration.
Prerequisites: DAAMS GC or DAAMS GC - ATD

SAFETY AND HEALTH TRAINING COURSES

Emergency Response Training Paths



SAFETY AND HEALTH TRAINING

Emergency Response Training

Advanced Emergency Response Plan (ERP-2)

12 Hours • 1.2 CEUs • 2/12 min/max

This is a lecture/seminar course where trainees are provided with information on the emergency response organization, response support available to the Chemical Demilitarization Facility (CDF), emergency notification and communication, personal protective equipment, scene incident command, resource management, hazmat entry safety measures, and personnel decontamination. Skill building activities include establishing an incident scene. This course will be taught by the Systems Contractor on-site.

Prerequisites: ERP-1

Advanced Emergency Response Plan Refresher (R-ERP-2)

4 Hours • 0.4 CEUs • 2/12 min/max

This is a lecture course where trainees are provided with a review of information on scene incident command, resource management, responder accountability, hazmat entry safety measures, and personnel decontamination. Skill building activities include establishing an incident scene. This course will be taught by the Systems Contractor on-site.

Prerequisites: ERP-2

Basic Emergency Response Plan (ERP-1)

8 Hours • 0.8 CEUs • 2/12 min/max

This is a lecture/seminar course where trainees are provided with information on basic emergency response concepts from the facility Emergency Response Plan and first responder procedures. Skill building activities include: situation assessment, making emergency notifications, scene control, and taking protective actions. This course will be taught by the Systems Contractor on-site.

Prerequisites: None

Basic Emergency Response Plan Refresher (R-REP-1)

4 Hours • 0.4 CEUs • 2/12 min/max

This is a lecture/seminar course where trainees are provided with a review of information on basic emergency response concepts from the facility Emergency Response Plan and first responder procedures. Skill building activities include: situation assessment, making emergency notifications, scene control, and taking protective actions. This course will be taught by the Systems Contractor on-site.

Prerequisites: ERP-1

Chemical Agent Release (AGE)

8 Hours • 0.8 CEUs • 3/12 min/max

This is a lecture/laboratory course where trainees are provided with the information necessary to understand hazards associated with chemical agent releases, leak/spill detection methods, hazard controls, escape techniques, and emergency decontamination procedures. The skill building laboratory exercise includes: identification of the emergency event, self/buddy aid, notification of the Control Room, and scene control. This course will be taught by the Systems Contractor on-site.

Prerequisites: ERP-1, First Aid, CPR

Chemical Agent Release Refresher (R-AGE)

4 Hours • 0.4 CEUs • 3/12 min/max

This is a lecture/laboratory course where trainees are provided with a review of the information necessary to understand hazards associated with chemical agent releases, leak/spill detection methods, hazard controls, escape techniques, and emergency decontamination procedures. The skill building laboratory exercise includes: identification of the emergency event, self/buddy aid, notification of the Control Room, and scene control. This course will be taught by the Systems Contractor on-site.

Prerequisites: AGE

Control Room Support (CON)

8 Hours • 0.8 CEUs • 2/12 min/max

This is a lecture/seminar course where trainees are provided with information on Control Room response fundamentals and Control Room support for facility response operations. Skill building activities include: 911 communication techniques, completing event reports, and making emergency notifications. This course will be taught by the Systems Contractor on-site.

Prerequisites: ERP-2

Emergency Decontamination (DEC)

24 Hours • 2.4 CEUs • 5/10 min/max

This is a lecture/laboratory course where trainees are provided with information on the fundamentals of emergency decontamination. The skill building laboratory exercise includes set up of a personnel decontamination station, decontaminate ambulatory and non-ambulatory personnel, and terminate decontamination operations in support of a response to a hazardous material release. This course will be taught by the Systems Contractor on-site.

Prerequisites: PPE

SAFETY AND HEALTH TRAINING

Emergency Personal Protective Equipment (PPE)

16 Hours • 1.6 CEUs • 2/8 min/max

This is a lecture/laboratory course where trainees are provided with information on the fundamentals of emergency PPE. The skill building laboratory exercise includes inspection, donning, doffing, and storage of PPE typically worn during response to HazMat events. OSHA Levels B and C are addressed in this course. This course will be taught by the Systems Contractor on-site.

Prerequisites: ERP-2, TAT

Exercise Implementation (EXE)

12 Hours • 1.2 CEUs • 2/12 min/max

This is a lecture course where trainees are provided information necessary to successfully perform their roles as emergency response exercise controllers, evaluators, and/or validators. The course provides an overview of the CDF exercise process, and detailed information on implementation phase of the process, which entails activities performed just prior to, during, and immediately after an emergency response exercise. Specific topics include: exercise participants; objectives and scenario; demonstration extent and event condition simulation; exercise messages; exercise package; player self-critique; and exercise control, evaluation, and validation. This course can be taught on-site.

Prerequisites: None

Fire Contingencies (FIR)

4 Hours • 0.4 CEUs • 2/12 min/max

This is a lecture/laboratory course where trainees are provided with the information necessary to understand the hazards of fire and take proper actions upon encountering a fire. The skill building laboratory exercise includes extinguishing an incipient-stage fire, and requires support of the installation fire department. This course will be taught by the Systems Contractor on-site.

Prerequisites: ERP-1

Fire Contingencies Refresher (R-FIR)

2 Hours • 0.2 CEUs • 2/12 min/max

This is a lecture/laboratory course where trainees are provided with a review of information necessary to understand the hazards of fire and take proper actions upon encountering a fire. The skill building laboratory exercise includes extinguishing an incipient-stage fire, and requires support of the installation fire department. This course will be taught by the Systems Contractor on-site.

Prerequisites: FIR

HAZMAT Entry (HME)

40 Hours • 4 CEUs • 4/6 min/max

This is a lecture/laboratory course where trainees are provided with information on the fundamentals of hazardous materials response. The intensive laboratory exercises help trainees build skills necessary to respond to a hazardous material release, including: hazardous materials detection, identification, and monitoring; hazard prediction; reconnaissance techniques; containment and confinement; and property decontamination. This course will be taught by the Systems Contractor on-site.

Prerequisites: DEC

Incident Command (IC)

8 Hours • 0.8 CEUs • 2/12 min/max

This is a lecture/seminar course where trainees are provided with the necessary tools and techniques to effectively gather information, assess hazards, determine appropriate protective actions, manage resources, and direct response actions. This course will be taught by the Systems Contractor on-site.

Prerequisites: none

Industrial Chemical Release (ICR)

8 Hours • 0.8 CEUs • 3/12 min/max

This is a lecture/laboratory course where trainees are provided with the information necessary to understand hazards associated with industrial chemicals, leak/spill detection methods, hazard controls, escape techniques, and emergency decontamination procedures. The skill building laboratory exercise includes: identification of the emergency event, self/buddy aid, notification of the Control Room, and scene control. This course will be taught by the Systems Contractor on-site.

Prerequisites: ERP-1, First Aid, CPR

HAZWOPER Training

24 Hour HAZWOPER for Government Monitors (HAZ)

24 Hours • 2.4 CEUs • 2/24 min/max

This course is designed to comply with the initial training requirements found in 29 CFR 1910.120 (p)(7), TSD facilities. Topics of discussion include: federal regulations, hazard communication standard, site safety and health plan, and control of hazards. Successful completion of the American Red Cross Adult CPR and First Aid Basics courses (conducted during the 24 hour session) are required for certification

Prerequisites: none

8 Hour HAZWOPER for Government Monitors (HAZ-R)

8 Hours • 0.8 CEUs • 2/24 min/max

This course is designed to comply with the refresher training requirements found in 29 CFR 1910.120 (p)(7), TSD facilities. Topics of discussion include: federal regulations, hazard communication standard, site safety and health plan, and control of hazards. Successful completion of the American Red Cross Adult CPR course (conducted during the afternoon session) is required for certification.

Prerequisites: HAZ

SAFETY AND HEALTH TRAINING

Adult CPR (American Red Cross) (CPR)

4 Hours • 0.4 CEUs • 24 min/max

Teaches how to recognize and care for breathing and cardiac emergencies in adults. Includes emergency action principles, rescue breathing, response procedures for choking, and cardio-pulmonary resuscitation for adults. This course is conducted as a part of the 24 and 8 Hour HAZWOPER For Government Monitors training courses.

Prerequisites: none

First Aid Basics (American Red Cross) (FAB)

4 Hours • 0.4 CEUs • 24 min/max

FIRST AID BASICS (American Red Cross) — Teaches basic first aid skills, such as how to care for life-threatening bleeding, sudden illness, and injuries. This course is conducted as a part of the 24 Hour HAZWOPER For Government Monitors Training course.

Prerequisites: none

Non-Stockpile 40 Hour HAZWOPER (HAZ)

40 Hours • 4 CEUs • 2/24 min/max

This is lecture/laboratory course designed for middle to upper level management. This course will cover proper health and safety protocol pertaining to the Non-Stockpile Program. Topics include introduction to the Non-Stockpile Program, regulations relating to the Non-Stockpile Program, hazard communications, hazard recognition and evaluation, overview of equipment and methods for remediation of non-stockpile sites, chemical agent awareness, monitoring of chemical warfare agents, use of emergency protective equipment (PPE), decontamination, site control, objectives of medical surveillance and life saving techniques following exposure to chemical agents. This course may be taught on-site.

Prerequisites: none

Non-Stockpile 8 Hour HAZWOPER Refresher (NHAZR)

8 Hours • 0.8 CEUs • 2/24 min/max

This is lecture/laboratory course designed for middle to upper level management. This course will cover refresher information on proper health and safety protocol pertaining to the Non-Stockpile Program. Topics include an overview of regulations relating to the Non-Stockpile Program (emphasizing any recent changes), hazard communications, hazard recognition, chemical agent awareness, monitoring and sampling, Personal Protective Equipment (PPE), respiratory protection, decontamination, and self/buddy aid. This course may be taught on-site.

Prerequisites: NHAZ

Toxic Area Training

DPE Backup Refresher Training Course (DPE-R)

16 Hours • 1.6 CEUs • 4/8 min/max

This course is designed to provide Chemical Demilitarization Facility (CDF) personnel with DPE Backup refresher training. As such, this course will discuss the programmatic safety requirements, equipment, systems and procedures relevant to DPE Backup Operations.

Prerequisites: TAT

Demilitarization Protective Ensemble Support Area Operator (DSA)

24 Hours • 2.4 CEUs • 4/6 min/max

This is a laboratory course where Demilitarization Protective Ensemble (DSA) operators perform DSA Support Operations Activities. Topics include unpacking of DPE suits, preparation and operation of the DPE suit sealers, and operator maintenance of the DPE communication and respirator units

Toxic Area Operations (TAO)

24 Hours • 2.4 CEUs • 4/6 min/max

This is a lecture/laboratory course where technicians perform the donning and doffing of the Demilitarization Protective Ensemble (DPE) suit, learn DPE emergency procedures, and perform practical exercises while wearing the DPE suit.

Prerequisites: none

Toxic Area Protection (TAP)

16 Hours • 1.6 CEUs • 4/6 min/max

This is a lecture/laboratory course where demil personnel learn chemical agent safety and the donning and doffing of Toxicological Agent Protective (TAP) clothing. Topics include agent symptoms, contamination categories, and practical exercises wearing protective clothing up to and including modified Level A. (This does not include emergency back-up training.)

Prerequisites: none

Toxic Area Training (TAT)

48 Hours • 4.8 CEUs • 4/6 min/max

This is a lecture/laboratory course which combines the Toxic Area Protection and Toxic Area Operations courses. Technicians learn chemical agent safety and the donning and doffing of Toxicological Agent Protective (TAP) clothing. Topics include agent symptoms, contamination categories, and practical exercises wearing protective clothing up to and including modified Level A. Technician then perform the donning and doffing of the Demilitarization Protective Ensemble (DPE) suit, learn DPE emergency procedures, and perform practical exercises while wearing the DPE suit. (This includes emergency back-up training.)

Prerequisites: none

PMCD FIELD OFFICE TRAINING COURSES

PMCD FIELD OFFICE TRAINING

PMCD Field Office Training

ACAMS System Training (ACAMS-PST)

4 Hours • 0.4 CEUs • 3/12 min/max

This is a lecture/seminar course where trainees learn the functional operation of the Automatic Continuous Air Monitoring System (ACAMS) and the Depot Area Air Monitoring System (DAAMS). This course builds on knowledge obtained in PSD. It provides a cursory discussion on ACAMS and focuses on the ACAMS interface with the plant's Operation Department. This course is included in the Utilities Systems PST and can be taught on-site.

Prerequisites: P&ID Reading, PSD

Brine Reduction Area System Training (BRA-PST)

4 Hours • 0.4 CEUs • 3/12 min/max

This is a lecture/seminar course where trainees learn the functional operation of the Brine Reduction Area System (BRA). This course builds on the skills obtained in the P&ID Reading course and PSD course, is included in the Utilities Systems PST, and can be taught on-site.

Prerequisites: P&ID Reading, PSD

Bulk Chemical System Training (BCS-PST)

4 Hours • 0.4 CEUs • 3/12 min/max

This is a lecture/seminar course where trainees learn the functional operation of the Bulk Chemical System (BCS). This course builds on the skills obtained in the P&ID Reading course and PSD course, is included in the Utilities Systems PST, and can be taught on-site.

Prerequisites: P&ID Reading, PSD

Bulk Container Handling System Training (BHS-PST)

8 Hours • 0.8 CEUs • 3/12 min/max

This is a lecture/seminar course where trainees learn the functional operation of the Bulk Container Handling System (BHS). This course builds on the skills obtained in the P&ID Reading course and PSD course. This course can be taught on-site, however, it is normally taught at the CDTF in order for trainees to perform a walk-down of the actual bulk container handling system.

Prerequisites: P&ID Reading, PSD

Central Decon System Training (CDS-PST)

4 Hours • 0.4 CEUs • 3/12 min/max

This is a lecture/seminar course where trainees learn the functional operation of the Central Decontamination System (CDS). This course builds on the skills obtained in the P&ID Reading course and PSD course, is included in the Utilities Systems PST, and can be taught on-site.

Prerequisites: P&ID Reading, PSD

Compressed Air System Training (CAS-PST)

8 Hours • 0.8 CEUs • 3/12 min/max

This is a lecture/seminar course where trainees learn the functional operation of the Compressed Air Systems (CAS). This course builds on the skills obtained in the P&ID Reading course and PSD course, is included in the Utilities Systems PST, and can be taught on-site.

Prerequisites: P&ID Reading, PSD

Container Handling Building System Training (CHB-PST)

4 Hours • 0.4 CEUs • 3/12 min/max

This is a lecture/seminar course where trainees learn the functional operation of the Container Handling Building Systems (CHB). This course builds on the skills obtained in the P&ID Reading course and PSD course, and can be taught on-site.

Prerequisites: P&ID Reading, PSD

Contracting Officer's Representative (COR)

10 Hours • 1 CEUs

This course provides a basic introduction to topics related to the functions of the Contracting Officer's Representative. Utilizing a self-study format, topics covered include contract law, administration, modification and changes, COR authority, uniform contract format, work statements, record keeping, surveillance and standards of conduct. This is a self-study course of 10-16 hours.

Prerequisites: none

Deactivation Furnace System Training (DFS-PST)

8 Hours • 0.8 CEUs • 3/12 min/max

This is a lecture/seminar course where trainees learn the functional operation of the Deactivation Furnace System (DFS). This course builds on the skills obtained in the P&ID Reading course and PSD course, and can be taught on-site.

Prerequisites: P&ID Reading, PSD

Electrical Distribution System Training (ELEC-PST)

8 Hours • 0.8 CEUs • 3/12 min/max

This is a lecture/seminar course where trainees learn the functional operation of the Electrical Distribution System (ELEC). This course does not focus on electrical safety or electrical fundamentals. This course builds on the skills obtained in the P&ID Reading course, is included in the Utilities Systems PST, and can be taught on-site.

Prerequisites: P&ID Reading, PSD

PMCD FIELD OFFICE TRAINING

Fire Detection and Protection System Training (FDS-PST)

4 Hours • 0.4 CEUs • 3/12 min/max

This is a lecture/seminar course where trainees learn the functional operation of the Fire Detection and Protection System (FDS). This course builds on the skills obtained in the P&ID Reading course and PSD course, is included in the Utilities Systems PST, and can be taught on-site.

Prerequisites: P&ID Reading, PSD

Fuel Gas System Training (FGS-PST)

4 Hours • 0.4 CEUs • 3/12 min/max

This is a lecture/seminar course where trainees learn the functional operation of the Fuel Gas System (FGS). This course builds on the skills obtained in the P&ID Reading course and PSD course, is included in the Utilities Systems PST, and can be taught on-site.

Prerequisites: P&ID Reading, PSD

HVAC System Training (HVAC-PST)

9 Hours • 0.9 CEUs • 3/12 min/max

This is a lecture/seminar course where trainees learn the functional operation of the Heating, Ventilation, and Air Conditioning System (HVAC), the Chilled Water System (CHW), and Hot Water System (HEAT). This course builds on the skills obtained in the P&ID Reading course and PSD course, is included in the Utilities Systems PST, and can be taught on-site.

Prerequisites: P&ID Reading, PSD

Hydraulic System Training (HYD-PST)

6 Hours • 0.6 CEUs • 3/12 min/max

This is a lecture/seminar course where trainees learn the functional operation of the MDB hydraulic system. This course builds on the skills obtained in the P&ID Reading course and PSD course, is included in the Utilities Systems PST, and can be taught on-site.

Prerequisites: P&ID Reading, PSD

Liquid Incinerator System Training (LIC-PST)

8 Hours • 0.8 CEUs • 3/12 min/max

This is a lecture/seminar course where trainees learn the functional operation of the Liquid Incinerator System (LIC). This course builds on the skills obtained in the P&ID Reading course and PSD course, and can be taught on-site.

Prerequisites: P&ID Reading, PSD

MDB Door System Training (DOOR-PST)

2 Hours • 0.2 CEUs • 3/12 min/max

This is a lecture/seminar course where operators learn the functional operation of the Munitions Demilitarization Building (MDB) door monitoring system. This course is included in the Utilities Systems PST and can be taught on-site.

Prerequisites: none

Metal Parts Furnace System Training (MPF-PST)

8 Hours • 0.8 CEUs • 3/12 min/max

This is a lecture/seminar course where trainees learn the functional operation of the Metal Parts Furnace System (MPF). This course builds on the skills obtained in the P&ID Reading course and PSD course, and can be taught on-site.

Prerequisites: P&ID Reading, PSD

Plant Systems Description (PSD)

24 Hours • 2.4 CEUs • 3/18 min/max

This is a lecture course where trainees are provided with a general description of the major systems and processes found at a Chemical Demilitarization Facility. The course objectives cover the purpose of each of the systems and its major components. This course is a prerequisite to all systems training and control room training, and can be taught on-site.

Prerequisites: none

Pollution Abatement System Training (PAS-PST)

8 Hours • 0.8 CEUs • 3/12 min/max

This is a lecture/seminar course where trainees learn the functional operation of the MPF, LIC, and DFS Pollution Abatement Systems (PAS). This course covers the PAS associated with TOCDF. This course builds on the skills obtained in the P&ID Reading course and PSD course, and can be taught on-site.

Prerequisites: P&ID Reading, PSD

Process Control System Overview (PCO)

16 Hours • 1.6 CEUs • 2/6 min/max

This is a lecture/laboratory course where non-control room operators perform the fundamentals of the CSDP Control Systems and Advisor PC system operations. Topics include accessing control screens and interpreting control screen indications.

Prerequisites: none

Process Cooling System Training (COOL-PST)

4 Hours • 0.4 CEUs • 3/12 min/max

This is a lecture/seminar course where trainees use the associated functional analysis workbook to learn the functional operation of the primary cooling system. This course builds on the skills obtained in the P&ID Reading course and PSD course, is included in the Utilities Systems PST, and can be taught on-site.

Prerequisites: P&ID Reading, PSD

PMCD FIELD OFFICE TRAINING

Projectile Handling System Training (PHS-PST)

16 Hours • 1.6 CEUs • 3/12 min/max

This is a lecture/seminar course where the trainees learn the functional operation of the Projectile Handling System (PHS). This course builds on the skills obtained in the P&ID Reading course and PSD course. This course can be taught on-site, however it is normally taught at the CDTF in order for trainees to walk-down the PMD and MDM.

Prerequisites: P&ID Reading, PSD

Risk Communication (RCOM)

24 Hours • 2.4 CEUs • 4/15 min/max

This is lecture/laboratory course which introduces trainees to the theory and practice of risk communications as they apply to complex and/or hazardous processes. Topics include an overview of the theory and fundamental principles of risk communications, implementation of risk communications into daily practice, identification of key constituents and how to best communicate with them, examination of channels of risk communication, and establishment of positive community relations. Exercises include development of a risk assessment plan, as well as message development and delivery activities. This course can be taught on-site.

Prerequisites: none

Rocket Handling System Training (RHS-PST)

8 Hours • 0.8 CEUs • 3/12 min/max

This is a lecture/seminar course where trainees learn the functional operation of the Rocket Handling System (RHS). This course builds on the skills obtained in the P&ID Reading course and PSD course. This course can be taught on-site, however it is normally taught at the CDTF in order for trainees to walk-down the rocket line.

Prerequisites: P&ID Reading, PSD

Steam Generation System Training (SGS-PST)

4 Hours • 0.4 CEUs • 3/12 min/max

This is a lecture/seminar course where the trainees learn the functional operation of the Steam Generation System (SGS). This course builds on skills obtained in P&ID Reading and PSD course, is included in the Utilities Systems PST, and can be taught on-site.

Prerequisites: P&ID Reading, PSD

Toxic Area Operations (TAO)

24 Hours • 2.4 CEUs • 4/6 min/max

This is a lecture/laboratory course where technicians perform the donning and doffing of the Demilitarization Protective Ensemble (DPE) suit, learn DPE emergency procedures, and perform practical exercises while wearing the DPE suit.

Prerequisites: none

Toxic Storage and Handling System Training (TOX-PST)

7 Hours • 0.7 CEUs • 3/12 min/max

This is a lecture/seminar course where trainees learn the functional operation of the toxic storage and handling system. Topics include the Spent Decon Collection (SDC), Spent Decon Storage and Feed (SDSF), and Agent Storage and Feed (ASF) systems. This course builds on the skills obtained in the P&ID Reading course and PSD course, is included in the Utilities Systems PST, and can be taught on-site.

Prerequisites: P&ID Reading, PSD

Water System Training (WATER-PST)

5 Hours • 0.5 CEUs • 3/12 min/max

This is a lecture/seminar course where trainees learn the functional operation of the water systems. This course builds on the skills obtained in the P&ID Reading course and PSD course, is included in the Utilities Systems PST, and can be taught on-site.

Prerequisites: P&ID Reading, PSD

INSTRUCTIONAL DESIGN AND COMMUNICATIONS TRAINING COURSES

INSTRUCTIONAL DESIGN AND COMMUNICATIONS TRAINING

Instructional Design and Communication Training

Communications and Team Skills Seminar Part-1 (CTS-1)

4 Hours • 0.4 CEUs • 6/15 min/max

This is a lecture/seminar workshop where training are provided with a general description and overview of communication processes and team behaviors relevant to Chemical Demilitarization Facility (CDF) Control Area Operations. This course investigates the following topics:

- Elements of the Communications Process
- Effective Listening
- Barriers to the Communication Process
- Team Skills.

This interactive course provide exercises that allow trainees to practice communication and team skills during the learning process. This course is recommended for CDF control room teams prior to Teamwork and Communications Exercise for CR Operators.

Prerequisites: None

Communications and Team Skills Seminar Part-2 (CTS-2)

4 Hours • 0.4 CEUs • 6/15 min/max

This is a lecture/seminar workshop where training are provided with a general description and overview of communication processes and team behaviors relevant to Chemical Demilitarization Facility (CDF) Control Area Operations. This course investigates the following topics:

- Communications Process Review
- The Group Process
- Dimensions of the Group Process
- Group Communications: Structural Elements
- Team Skills
- Prescriptive Approaches to Decision Making
- Descriptive Approaches to Decision Making
- Decision Emergence

This interactive course provide exercises that allow trainees to practice communication and team skills during the learning process. This course is recommended for CDF control room teams prior to Team work and Communications Exercise for CR Operators.

Prerequisites: CTS-1

Communications and Team Skills Seminar Part-3 (CTS-3)

3 Hours • 0.3 CEUs • 6/15 min/max

This is a lecture/seminar workshop where training are provided with a general description and overview of communication processes and team behaviors relevant to Chemical Demilitarization Facility (CDF) Control Area Operations. This course investigates the following topics:

- Communications Process Review
- Improving Effectiveness: Attitudinal Factors
- Improving Effectiveness: Interpersonal Factors
- Improving Effectiveness: Group Identity Factors
- Wilderness Survival Team Exercise

This interactive course provide exercises that allow trainees to practice communication and team skills during the learning process. This course is recommended for CDF control room teams prior to Teamwork and Communications Exercise for CR Operators.

Prerequisites: CTS-1, CTS-2

Instructional Design and Development Basics (ISD)

16 Hours • 1.6 CEUs • 2/15 min/max

This is a lecture/laboratory course where trainees learn the Probe, Plan and Prepare steps of the "5P's" of Instructional Design (Probe, Plan, Prepare, Present, and Prove/Improve). Topics include how to conduct a needs analysis, write behavioral objectives, write a course content outlines, create a design documents, develop participant and instructor manuals, create visuals, evaluate completed materials, and conduct a pilot course. Exercises have trainees apply lessons learned in class to a real life project. This course can be taught on-site.

Prerequisites: none

Instructional Tools and Techniques (ITNT)

21 Hours • 2.1 CEUs • 2/10 min/max

This is a lecture/laboratory course where trainees receive in-depth training on classroom presentation skills. It is designed to meet the classroom instructor needs of regulated industries and builds "instructional skills" through a series of short teaching sessions and a final presentation (videotaped and critiqued). Topics include adult learning and instruction, basic instructional tools, basic presentation skills, facilitation skills, audience identification, delivery methods, question generation, and audience motivation. This course can be taught on-site.

Prerequisites: none

ISD Refresher (ISD-R)

8 Hours • 0.8 CEUs • 2/15 min/max

This is a lecture/laboratory course where trainees review the Probe, Plan and Prepare steps of the "5P's" of Instructional Design (Probe, Plan, Prepare, Present, and Prove/Improve).Topics include how to conduct a needs analysis, write behavioral objectives, write a course content outlines, create a design documents, develop participant and instructor manuals, create visuals, evaluate completed materials, and conduct a pilot course. Exercises have trainees apply lessons learned in class to real life project. This course can be taught on-site.

Prerequisites: ISD or 2 or more years of formal ISD experience, but lack formal training

INSTRUCTIONAL DESIGN AND COMMUNICATIONS TRAINING

JTA Workshop (JTA)

40 Hours • 4 CEUs • 3/12 min/max

This lecture/laboratory course is designed to prepare trainees to perform needs, job, and task analysis within the framework of the Instructional Systems Development (ISD) process. Topics include ISD overview, analysis data collection, conducting a needs analysis, conducting a job analysis, conducting a task analysis, design of objectives from task analysis data, design of job performance measures, and evaluating training/analysis. Exercises have trainees apply the in-depth JTA process learned in class to real life project. This course can be taught on-site.

Prerequisites: none

Leadership Tools and Techniques (LTNT)

24 Hours • 2.4 CEUs • 10/20 min/max

This is workshop directed at mid-level managers. Leadership skills are assessed through a 360 degree feedback instrument that assists managers in their personal development by identifying strengths and areas for potential improvement. A variety of leadership tools are presented and applied in an interactive, workshop environment. Topics include managing change, leadership, motivation, managing conflict, managing performance and empowerment, as well as development of a personal action plan. This course can be taught on-site.

Prerequisites: none

Needs Analysis (NA)

8 Hours • 0.8 CEUs • 4/20 min/max

This is a lecture/laboratory course where trainees receive training on the purpose and process of conducting a needs analysis. Topics include the systematic process of identifying human resource requirements and performance deficiencies, analyzing alternative solutions, and identifying solutions that will satisfy the requirement or eliminate the deficiency. This course can be taught on-site.

Prerequisites: none

REFRESHER TRAINING COURSES

REFRESHER TRAINING

Refresher Training

Advanced Emergency Response Plan Refresher (R-ERP-2)

4 Hours • 0.4 CEUs • 2/12 min/max

This is a lecture course where trainees are provided with a review of information on scene incident command, resource management, responder accountability, hazmat entry safety measures, and personnel decontamination. Skill building activities include establishing an incident scene. This course will be taught by the Systems Contractor on-site.

Prerequisites: ERP-2

Basic Emergency Response Plan Refresher (R-REP-1)

4 Hours • 0.4 CEUs • 2/12 min/max

This is a lecture/seminar course where trainees are provided with a review of information on basic emergency response concepts from the facility Emergency Response Plan and first responder procedures. Skill building activities include: situation assessment, making emergency notifications, scene control, and taking protective actions. This course will be taught by the Systems Contractor on-site.

Prerequisites: ERP-1

Chemical Agent Release Refresher (R-AGE)

4 Hours • 0.4 CEUs • 3/12 min/max

This is a lecture/laboratory course where trainees are provided with a review of the information necessary to understand hazards associated with chemical agent releases, leak/spill detection methods, hazard controls, escape techniques, and emergency decontamination procedures. The skill building laboratory exercise includes: identification of the emergency event, self/buddy aid, notification of the Control Room, and scene control. This course will be taught by the Systems Contractor on-site.

Prerequisites: AGE

Communications and Team Skills Seminar Part-1 (CTS-1)

4 Hours • 0.4 CEUs • 6/15 min/max

This is a lecture/seminar workshop where training are provided with a general description and overview of communication processes and team behaviors relevant to Chemical Demilitarization Facility (CDF) Control Area Operations. This course investigates the following topics:

- Elements of the Communications Process
- Effective Listening
- Barriers to the Communication Process
- Team Skills.

This interactive course provide exercises that allow trainees to practice communication and team skills during the learning process. This course is recommended for CDF control room teams prior to Teamwork and Communications Exercise for CR Operators.

Prerequisites: None

Communications and Team Skills Seminar Part-2 (CTS-2)

4 Hours • 0.4 CEUs • 6/15 min/max

This is a lecture/seminar workshop where training are provided with a general description and overview of communication processes and team behaviors relevant to Chemical Demilitarization Facility (CDF) Control Area Operations. This course investigates the following topics:

- Communications Process Review
- The Group Process
- Dimensions of the Group Process
- Group Communications: Structural Elements
- Team Skills
- Prescriptive Approaches to Decision Making
- Descriptive Approaches to Decision Making
- Decision Emergence

This interactive course provide exercises that allow trainees to practice communication and team skills during the learning process. This course is recommended for CDF control room teams prior to Team work and Communications Exercise for CR Operators.

Prerequisites: CTS-1

Communications and Team Skills Seminar Part-3 (CTS-3)

3 Hours • 0.3 CEUs • 6/15 min/max

This is a lecture/seminar workshop where training are provided with a general description and overview of communication processes and team behaviors relevant to Chemical Demilitarization Facility (CDF) Control Area Operations. This course investigates the following topics:

- Communications Process Review
- Improving Effectiveness: Attitudinal Factors
- Improving Effectiveness: Interpersonal Factors
- Improving Effectiveness: Group Identity Factors
- Wilderness Survival Team Exercise

This interactive course provide exercises that allow trainees to practice communication and team skills during the learning process. This course is recommended for CDF control room teams prior to Teamwork and Communications Exercise for CR Operators.

Prerequisites: CTS-1, CTS-2

REFRESHER TRAINING

Deactivation Furnace (DFS) Contingency Refresher Training for CR Operators (DFS-CONT)

16 Hours • 1.6 CEUs • 2/6 min/max

This is a lecture/laboratory course where certified operators identify, discuss and respond to various contingencies on the simulated DFS system. Topics include simulator control, processing, logs, contingency fundamentals, and contingency response group discussions. Contingencies in which operators identify, discuss, and respond include scenarios like (not limited to) the following:

- Global Loss of Power
- Kiln Detonation
- Single Stage Induced Draft (I.D.) Fan Failure
- Two Stage I.D. Fan Failure
- Pollution Abatement System (P.A.S.) Flow Switch Failure
- Afterburner Combustion Air Blower (C.A.B.) Failure
- Kiln C.A.B. Failure
- Various Loop Controller Failures (Pressure, Temperature, Combustion Air (C.A.) Flow, Fuel Gas (F.G.) Flow
- Feed and Discharge Chute Jam Alarms

Evaluations are performed on individual furnace operators as requested.

Prerequisites: Site DFS operator certification

Fire Contingencies Refresher (R-FIR)

2 Hours • 0.2 CEUs • 2/12 min/max

This is a lecture/laboratory course where trainees are provided with a review of information necessary to understand the hazards of fire and take proper actions upon encountering a fire. The skill building laboratory exercise includes extinguishing an incipient-stage fire, and requires support of the installation fire department. This course will be taught by the Systems Contractor on-site.

Prerequisites: FIR

Liquid Incinerator (LIC) Contingency Refresher Training for CR Operators (LIC-CONT)

16 Hours • 1.6 CEUs • 2/6 min/max

This is a lecture/laboratory course where certified operators identify, discuss and respond to various contingencies on the simulated LIC system. Topics include simulator control, processing, logs, contingency fundamentals, and contingency response group discussions. Contingeenices that are identified, discussed, and responded to include (but not limited to) the following:

- Global Loss of Power
- Primary Combustion Air Blower (C.A.B.) Failure
- Secondary C.A.B. Failure
- Single Stage I.D. Fan Failure
- Two Stage I.D. Fan Failure
- Primary and Secondary Extreme Temperature Limit (E.T.L) alarms
- Primary and Secondary Atomizing Air Failures
- Various Loop Controller Failures (Agent Flow, Pressure, Temperature)

Evaluations are performed on individual furnace operators as requested.

Prerequisites: Site LIC operator certification

Metal Parts Furnace (MPF) Contingency Refresher Training for CR Operators (MPF-CONT)

16 Hours • 1.6 CEUs • 2/6 min/max

This is a lecture/laboratory course where certified operators identify, discuss and respond to various contingencies on the simulated MPF system. Topics include simulator control, processing, logs, contingency fundamentals, and contingency response group discussions. Contingencies that are identified, discussed, and responded to include (but not limited to) the following:

- Global Loss of Power
- Single Stage I.D. Fan Failure
- Two Stage I.D. Fan Failure
- Loss of Fuel Gas
- Combustion Air Blower (C.A.B.) Failure
- Various Loop Controller Failures (Pressure, Temperature)
- Zone Conveyor Failure

Evaluations are performed on individual furnace operators as requested.

Prerequisites: Site MPF operator certification

Teamwork and Communications Exercise for Control Room Operators (TEAM-COMMS)

12 Hours • 1.2 CEUs • 3/6 min/max

This is a lecture/laboratory course where a control room team responds as an integrated unit to various contingencies on the simulated furnace and utility systems. Topics include simulator control, logs, casualty communication fundamentals and group contingency response discussions. Evaluations are performed on the team as a unit.

Prerequisites: Site Furnace Operator certification or Site CR Supervisor Certification or Site Plant Shift Manager certification

Non-Stockpile 8 Hour HAZWOPER Refresher (NHAZR)

8 Hours • 0.8 CEUs • 2/24 min/max

This is lecture/laboratory course designed for middle to upper level management. This course will cover refresher information on proper health and safety protocol pertaining to the Non-Stockpile Program. Topics include an overview of regulations relating to the Non-Stockpile Program (emphasizing any recent changes), hazard communications, hazard recognition, chemical agent awareness, monitoring and sampling, Personal Protective Equipment (PPE), respiratory protection, decontamination, and self/buddy aid. This course may be taught on-site.

Prerequisites: NHAZ

REFRESHER TRAINING

8 Hour HAZWOPER for Government Monitors (HAZ-R)

8 Hours • 0.8 CEUs • 2/24 min/max

This course is designed to comply with the refresher training requirements found in 29 CFR 1910.120 (p)(7), TSD facilities. Topics of discussion include: federal regulations, hazard communication standard, site safety and health plan, and control of hazards. Successful completion of the American Red Cross Adult CPR course (conducted during the afternoon session) is required for certification.

Prerequisites: HAZ

Adult CPR (American Red Cross) (CPR)

4 Hours • 0.4 CEUs • 24 min/max

Teaches how to recognize and care for breathing and cardiac emergencies in adults. Includes emergency action principles, rescue breathing, response procedures for choking, and cardio-pulmonary resuscitation for adults. This course is conducted as a part of the 24 and 8 Hour HAZWOPER For Government Monitors training courses.

Prerequisites: none

DPE Backup Refresher Training Course (DPE-R)

16 Hours • 1.6 CEUs • 4/8 min/max

This course is designed to provide Chemical Demilitarization Facility (CDF) personnel with DPE Backup refresher training. As such, this course will discuss the programmatic safety requirements, equipment, systems and procedures relevant to DPE Backup Operations.

Prerequisites: TAT

Instructional Design and Development Basics (ISD)

16 Hours • 1.6 CEUs • 2/15 min/max

This is a lecture/laboratory course where trainees learn the Probe, Plan and Prepare steps of the "5P's" of Instructional Design (Probe, Plan, Prepare, Present, and Prove/Improve). Topics include how to conduct a needs analysis, write behavioral objectives, write a course content outlines, create a design documents, develop participant and instructor manuals, create visuals, evaluate completed materials, and conduct a pilot course. Exercises have trainees apply lessons learned in class to a real life project. This course can be taught on-site.

Prerequisites : none

Instructional Tools and Techniques (ITNT)

21 Hours • 2.1 CEUs • 2/10 min/max

This is a lecture/laboratory course where trainees receive in-depth training on classroom presentation skills. It is designed to meet the classroom instructor needs of regulated industries and builds "instructional skills" through a series of short teaching sessions and a final presentation (videotaped and critiqued). Topics include adult learning and instruction, basic instructional tools, basic presentation skills, facilitation skills, audience identification, delivery methods, question generation, and audience motivation. This course can be taught on-site.

Prerequisites: none

ISD Refresher (ISD-R)

8 Hours • 0.8 CEUs • 2/15 min/max

This is a lecture/laboratory course where trainees review the Probe, Plan and Prepare steps of the "5P's" of Instructional Design (Probe, Plan, Prepare, Present, and Prove/Improve).Topics include how to conduct a needs analysis, write behavioral objectives, write a course content outlines, create a design documents, develop participant and instructor manuals, create visuals, evaluate completed materials, and conduct a pilot course. Exercises have trainees apply lessons learned in class to real life project. This course can be taught on-site.

Prerequisites: ISD or 2 or more years of formal ISD experience, but lack formal training

JTA Workshop (JTA)

40 Hours • 4 CEUs • 3/12 min/max

This lecture/laboratory course is designed to prepare trainees to perform needs, job, and task analysis within the framework of the Instructional Systems Development (ISD) process. Topics include ISD overview, analysis data collection, conducting a needs analysis, conducting a job analysis, conducting a task analysis, design of objectives from task analysis data, design of job performance measures, and evaluating training/analysis. Exercises have trainees apply the in-depth JTA process learned in class to real life project. This course can be taught on-site.

Prerequisites: none

Leadership Tools and Techniques (LTNT)

24 Hours • 2.4 CEUs • 10/20 min/max

This is workshop directed at mid-level managers. Leadership skills are assessed through a 360 degree feedback instrument that assists managers in their personal development by identifying strengths and areas for potential improvement. A variety of leadership tools are presented and applied in an interactive, workshop environment. Topics include managing change, leadership, motivation, managing conflict, managing performance and empowerment, as well as development of a personal action plan. This course can be taught on-site.

Prerequisites: none

Needs Analysis (NA)

8 Hours • 0.8 CEUs • 4/20 min/max

This is a lecture/laboratory course where trainees receive training on the purpose and process of conducting a needs analysis. Topics include the systematic process of identifying human resource requirements and performance deficiencies, analyzing alternative solutions, and identifying solutions that will satisfy the requirement or eliminate the deficiency. This course can be taught on-site.

Prerequisites: none